HCD-H771/H771D

SERVICE MANUAL

Photo : H771 US model

US Model
Canadian Model
HCD-H771/H771D
AEP Model
UK Model
E Model
Australian Model
HCD-H771

HCD-H771/H771D is the tuner, deck, CD and amplifier section in MHC-D6/G77/771.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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CD SECTION	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM38-5BD19
	Base Unit Type	BU-5BD19
	Optical Pick-up Type	KSS-213BA/F-NP
TAPE DECK SECTION	Model Name Using Similar Mechanism	HCD-H701
	Tape Transport Mechanism Type	TCM-220WR2E

SPECIFICATIONS

For the U.S. model
AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 6 ohm loads, both channels driven, from 40 – 20,000 Hz; rated 50 watts per channel minimum RMS power, with no more than 0.9 % total harmonic distortion from 250 milliwatts to rated output.

CD player section

System Compact disc and digital audio system
Laser Semiconductor laser (λ =780 nm)
Emission daration: continnous
Laser output Max. 44.6 μW*
* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.

Frequency response
2 Hz–20 kHz (± 0.5 dB)
Wavelength 780–790 nm
Signal-to-noise ratio
More than 90 dB
Dynamic range
More than 90 dB

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section
Tuning range
East European, CIS models:
65.0–74.0 MHz
87.5–108.0 MHz
Other models:
87.5–108.0 MHz
Antenna FM lead antenna
Antenna terminals
75 ohm unbalanced
Intermediate frequency
10.7 MHz

AM tuner section
Tuning range
US, Canadian models:
AM: 531–1,710 kHz
German, Italian models:
AM: 531–1,602 kHz
(with the interval set at 9 kHz)
AEP, UK, East European models:
MW: 531–1,602 kHz
(with the interval set at 9 kHz)
LW: 153–279 kHz
(with the interval set at 3 kHz)
E2, Australian, Argentine, Mexican, Thailand models:
531–1,602 kHz (with the tuning interval set at 9 kHz)
530–1,710 kHz (with the tuning interval set at 10 kHz)
E3, Saudi Arabia, Malaysia, Singapore, Hong Kong models:
MW: 531–1,602 kHz
(with the interval set at 9 kHz)
530–1,710 kHz
(with the interval set at 10 kHz)
SW: 5.95–17.90 MHz

— Continued on next page —

使用時は添付資料も参照のこと
Refer to the additional documents.

COMPACT DISC DECK RECEIVER

SONY®

CIS model:
MW: 531–1,602 kHz
LW: 153–279 kHz
SW: 5.95–17.9 MHz
Antenna AM loop antenna,
External antenna terminals
Intermediate frequency
450 kHz

Amplifier section

DIN power output
AEP, UK, German, Italian,
East European, CIS models:
35W+35W
(6 ohms, at 1 kHz, DIN)
Continuous RMS power output
U S model:
50W+50W
(6 ohms at 40–20,000 Hz,
0.8% THD)
Canadian model:
50W+50W
(8 ohms at 1 kHz, 5% THD)
AEP, UK, German, Italian,
East European, CIS models:
45W+45W
(6 ohms at 1 kHz, 10% THD)
Other models:
45W+45W
(6 ohms at 1 kHz, 5% THD)
Music power output
AEP, UK, German, Italian,
East European, CIS models:
80W+80W
(6 ohms at 1 kHz, 10% THD)
Peak music power output
EXCEPT US, Canadian, AEP, UK,
German, Italian, East European, CIS
models : 700W

Inputs
H771: US, Canadian models
100 CD/VIDEO IN (Phono jacks):
Other models
VIDEO/MD IN (Phono jacks):
voltage 450 mV,
impedance 47 kilohms
MIX MIC (phone jacks):
sensitivity 1 mV,
impedance 10 kilohms

Outputs
H771: US, Canadian models
100 CD/VIDEO OUT (Phono jacks):
Other models
VIDEO/MD OUT (Phono jacks):
voltage 250 mV,
impedance 1 kilohms
PHONES (stereo phone jack):
accepts headphones of 8 ohms or
more.
SPEAKER:
accepts impedance of 6 to 16 ohms.
SURROUND SPEAKERS:
Except H771: AEP, UK, German, Italian,
East European, CIS/H771D:
accepts impedance of 16 ohms.
SUPER WOOFER:
Except H771: AEP, UK, German, Italian,
East European, CIS/H771D:
Voltage 1V, impedance 1 kilohms.

Tape player section

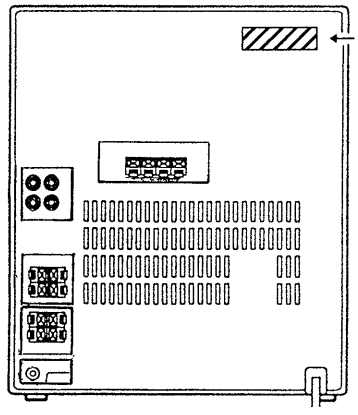
Recording system
4-track 2-channel stereo
Frequency response
(DOLBY NR OFF)
40–13,000 Hz (± 3 dB),
using Sony TYPE I cassette
40–14,000 Hz (± 3 dB),
using Sony TYPE II cassette
Wow and flutter
± 0.15% W. Peak (IEC)
0.1% W. RMS (NAB)
± 0.2% W. Peak (DIN)

General

Power requirements
US, Canadian, Mexican models:
120V CA, 60 Hz
AEP, UK, German, Italian,
East European, CIS models:
220–230V AC, 50/60 Hz
Australian model:
240V AC, 50/60 Hz
Malaysia, Thailand models:
220–240V AC, 50/60 Hz
Other models:
110–120V or 220–240V AC
Adjustable with the voltage selector
Power consumption
US model:
110W
Canadian model:
150W
AEP, UK, German, Italian,
East European, CIS models:
80W
Other models:
110W
Dimensions Approx. 280 × 325 × 360 mm
(11 1/8 × 12 7/8 × 14 1/4 in) (w/h/d)
incl. projecting parts and controls
Mass
US, Canadian, Mexican models:
Approx. 8.2 kg (18 lb 1 oz)
AEP, UK, German, Italian,
East European, CIS models:
Approx. 8.1 kg (17 lb 13 oz)
Other models:
Approx. 8.4 kg (18 lb 8 oz)

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION
— BACK PANEL —



MODEL	PARTS No.
H771D : US model	4-978-817-9□
H771D : Canadian model	4-982-549-0□
H771 : US model	4-978-817-7□
H771 : Canadian model	4-978-817-8□
H771 : AEP model	4-978-817-0□
H771 : UK model	4-978-817-1□
H771 : German model	4-978-817-2□
H771 : Italian model	4-978-817-3□
H771 : East European model	4-978-817-4□
H771 : CIS model	4-978-817-5□
H771 : E2, E3 model	4-979-275-0□
H771 : Saudi Arabia model	4-979-275-1□
H771 : Australian model	4-979-275-2□
H771 : Mexican model	4-979-275-3□
H771 : Malaysia model	4-979-275-4□
H771 : Singapore model	4-979-275-5□
H771 : Argentine model	4-979-275-6□
H771 : Hong Kong model	4-979-275-7□
H771 : Thailand model	4-979-275-8□

- Abbreviation
  E2 : Without SW tuner model.
  E3 : With SW tuner model.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

CAUTION	:	INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL:		USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARO!	:	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSÄTEILYLLE.
VARNING	:	LASERSTRÅLING NÄR DENNA DEL ÄR OPPNÅD OCH SPÄRREN ÄR URXOPPLAD.
ADVERSEL:		USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

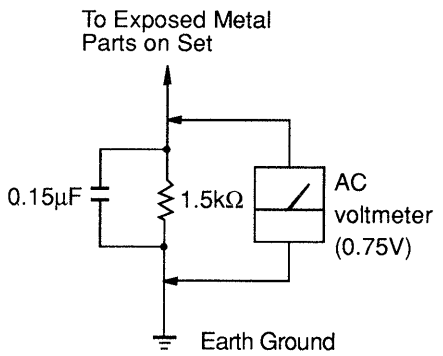


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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- Abbreviation
  G : German model.
  IT : Italian model.
  EE : East European model.
  TH : Thailand model.

SECTION 1
SERVICING NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

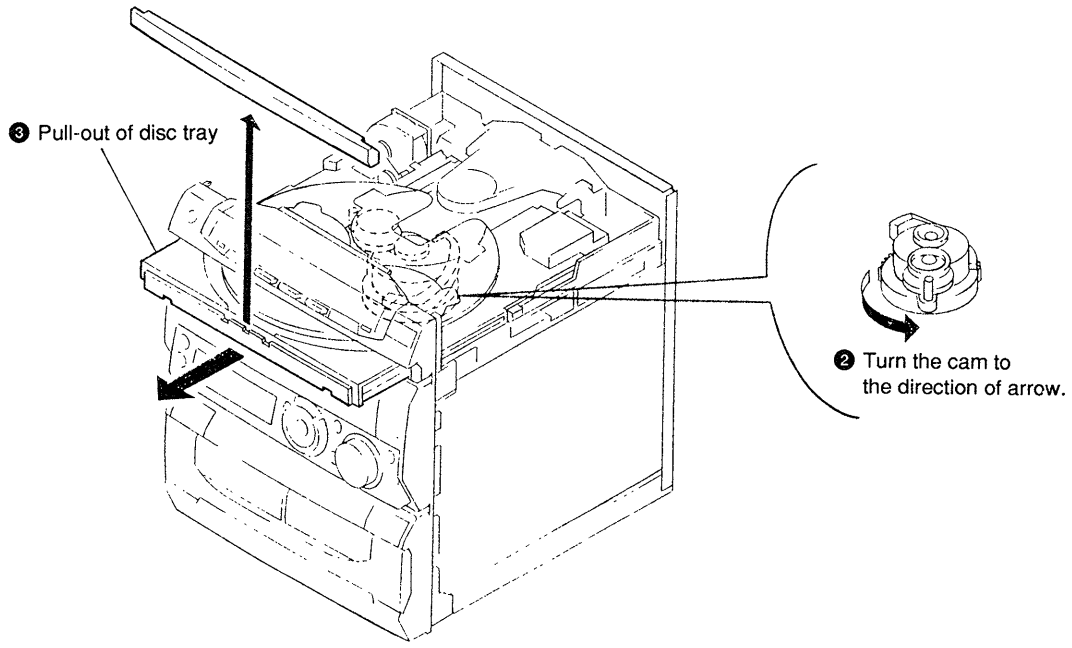
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH OFF

❶ Remove the case.



[FL Display Tube, LED All Lit and Key Check mode]

When the TUNER/BAND, DISPLAY/DEMO, and MENU 2 buttons are pressed simultaneously, the FL display tube and LEDs will all light up. Press any button to enter the key check mode.

When the key check mode is entered, the FL display tube displays "K 1 J0 V0". Each time button is pressed, the counter increases in the following order, K 2 → K 3 → K 4.

If buttons already pressed once are pressed again, the counter will not increase. When the VOLUME knob is rotated in the + direction, the count increases in the following order.

V1 → V2 → V3.

When rotated in the – direction, it decreases in the following order.

V0 → V9 → V8.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

[Switching the channel step 9 KHz/10 KHz]

Press ENTER/NEXT button and POWER button simultaneously to switch the AM channel step 9 KHz and 10 KHz. Be sure not to change with carelessness.

When the AMS dial is rotated in the clockwise direction, the count increases in the following order.

J1 → J2 → J3.

When rotated in the counterclockwise direction, it decreases in the following order.

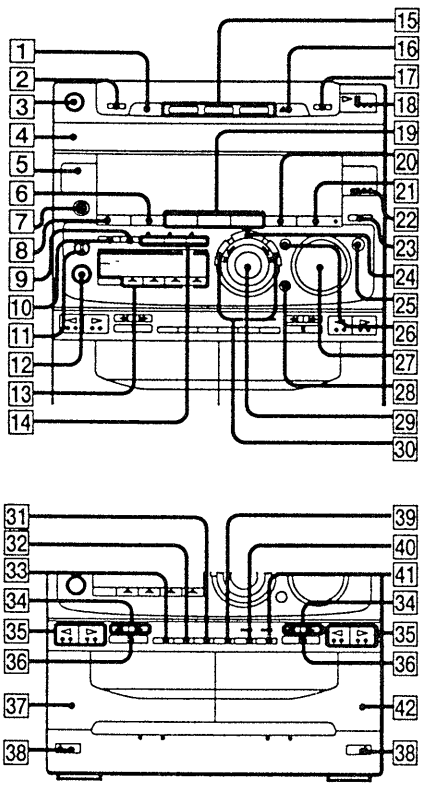
J0 → J9 → J8.

To exit form the test mode, press the TUNER/BAND, DISPLAY/DEMO, MENU 2 buttons simultaneously again.

SECTION 2
GENERAL

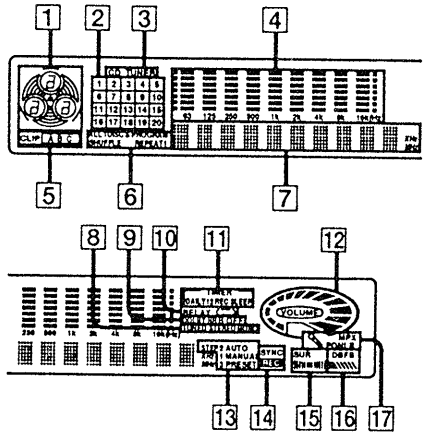
This section is extracted from instruction manual.

Front Panel



1 DISC SKIP EX-CHANGE button (7)
2 LOOP button (10)
3 POWER switch (7)
4 Disc tray (7)
5 TIMER button (22)
6 SURROUND button (20)
7 PHONES jack (19)
8 DISPLAY/DEMO button (5)
9 CLIP ERASE button (10)
10 CLIP PLAY button (10)
11 MIC LEVEL knob (24)
12 MIX MIC jack (24)
13 MULTI FUNCTION CONTROL buttons (30)
14 CLIP A – C buttons (10)
15 DISC 1 – 3 buttons (7)
16 ⏏ OPEN/CLOSE button (7)
17 □ (stop) button (7)
18 ▷II (play/pause) button* (7)
19 MENU 1 – 3 buttons (19)
20 P FILE button (21)
21 EFFECT ON/OFF button* (19)
22 TUNER/BAND button* (12)
23 FUNCTION button (8, 24)
24 ENTER/NEXT button (9)
25 GROOVE button* (19)
26 DBFB button (19)
27 VOLUME control* (19)
28 KARAOKE PON/MPX button (24)
29 JOG dial (7)
30 FREQUENCY +/– buttons (20)
31 HIGH SPEED DUBBING button (18)
32 DIRECTION button (14)
33 DOLBY NR button (14)
34 ◁◁/▷▷ (rewind/fast forward) button (14)
35 ◁/▷ reverse side play/front side play button* (14)
36 □ (stop) button (14)
37 Deck A (14)
38 ⏏ EJECT button (14)
39 CD SYNCHRO button (15)
40 ○ REC button* (15)
41 II PAUSE button* (15)
42 Deck B (14)

Display Window

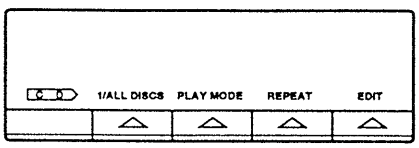


1 Disc tray indicator
2 Music calendar (7)
3 CD/TUNER indicator (7, 12)
4 Graphic Equalizer indicator (20)
5 CLIP indicators (10)
6 CD playback indicators (8, 9)
7 Multi display
8 Tuning indicator (12)
9 DOLBY NR indicator (14)
10 Direction mode indicators (14)
11 Timer indicators (22, 23)
12 VOLUME indicators
13 Tuner indicators (12, 13)
14 SYNC REC indicator
15 SUR indicator (20)
16 DBFB indicator (19)
17 Karaoke PON/MPX indicators (24)

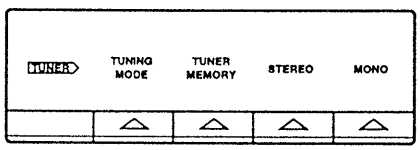
MULTI FUNCTION CONTROL Buttons

The buttons you can operate the CD player, tuner and the timer light up.

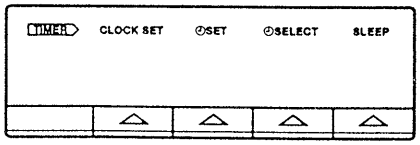
CD player



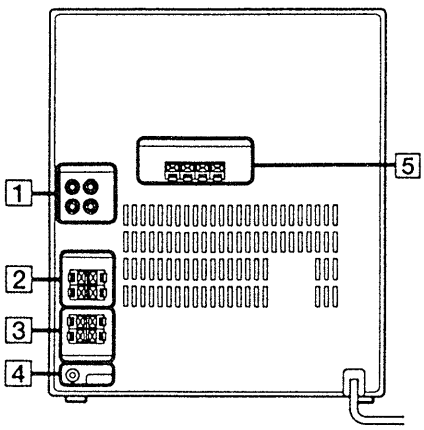
Tuner



Timer



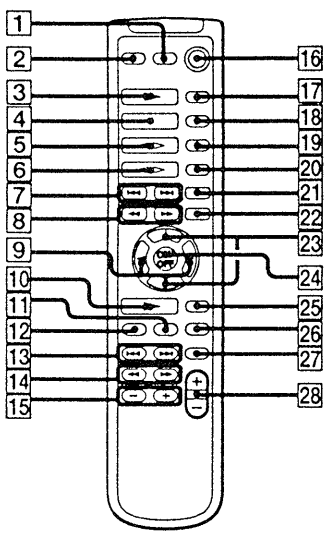
Rear Panel



1 100 CD/VIDEO IN/OUT jacks (25) (H771: US, Canadian models)
1 VIDEO/MD IN/OUT jacks (26)
(Other models)
2 SPEAKER L/R connectors (4)
3 SURROUND SPEAKER L/R connectors (4) (Except H771: AEP, UK, German, Italian, East European, CIS/H771D models)
4 SUPER WOOFER jack (26)
(Except H771: AEP, UK, German, Italian, East European, CIS/H771D models)
5 ANTENNA terminals (4)

Remote (RM-SC100F)

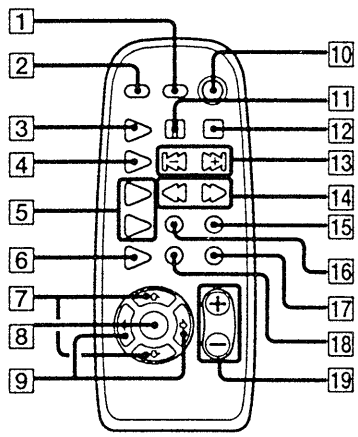
(H771: US, Canadian models)



1 FUNCTION button (8, 24)
2 SLEEP button (22)
3 ▷ (CD) button (7)
4 TUNER/BAND button (12)
5 DECK A ◁/▷ button (14)
6 DECK B ◁/▷ button (14)
7 ⏮/⏭ (CD)/TUNING +/– buttons (8, 13)
8 ◀◀/▶▶ (CD) buttons (8)
9 ◀/▶ buttons (19)
10 ▷ (100 CD) button (25)
11 ⏸ (pause) button (25)
12 ■ (stop) button (25)
13 ⏮/⏭ AMS* (100 CD) buttons (25)
14 ◀◀/▶▶ (100 CD) buttons (25)
15 DISC SKIP +/– (100 CD) button (25)
16 POWER button (7)
17 LOOP button (10)
18 CHECK (CD) button (9)
19 CLEAR (CD) button (9)
20 D.SKIP button (7)
21 ■ (stop) button (7)
22 ⏸ (pause) button (7)
23 ▲/▼ buttons (19)
24 MUSIC MENU ON/OFF button (19)
25 REPEAT button (9)
26 CHECK (100 CD) button (25)
27 CLEAR (100 CD) button (25)
28 VOLUME +/– button (19)

Remote (RM-SD50)

(Other models)



1 SLEEP button (23)
2 LOOP button (11)
3 CD ▷ button (7)
4 TUNER/BAND button (12)
5 DECK A ▷ /DECK B ▷ button (7)
6 FUNCTION ▷ button (8, 25)
7 MUSIC MENU ⟲ / ⟳ buttons (20)
8 MUSIC MENU ON/OFF button (20)
9 MUSIC MENU ⟲ / ⟳ buttons (20)
10 POWER switch (7)
11 ⏸ (pause) button (7)
12 ■ (stop) button (7)
13 ⏮ / ⏭ AMS* button (7)
14 ◁ / ▷ (rewind/fast forward) button (8)
15 EDIT button (16)
16 CHECK button (9)
17 DISC SKIP button
18 CLEAR button (9)
19 VOL (+/–) button (20)

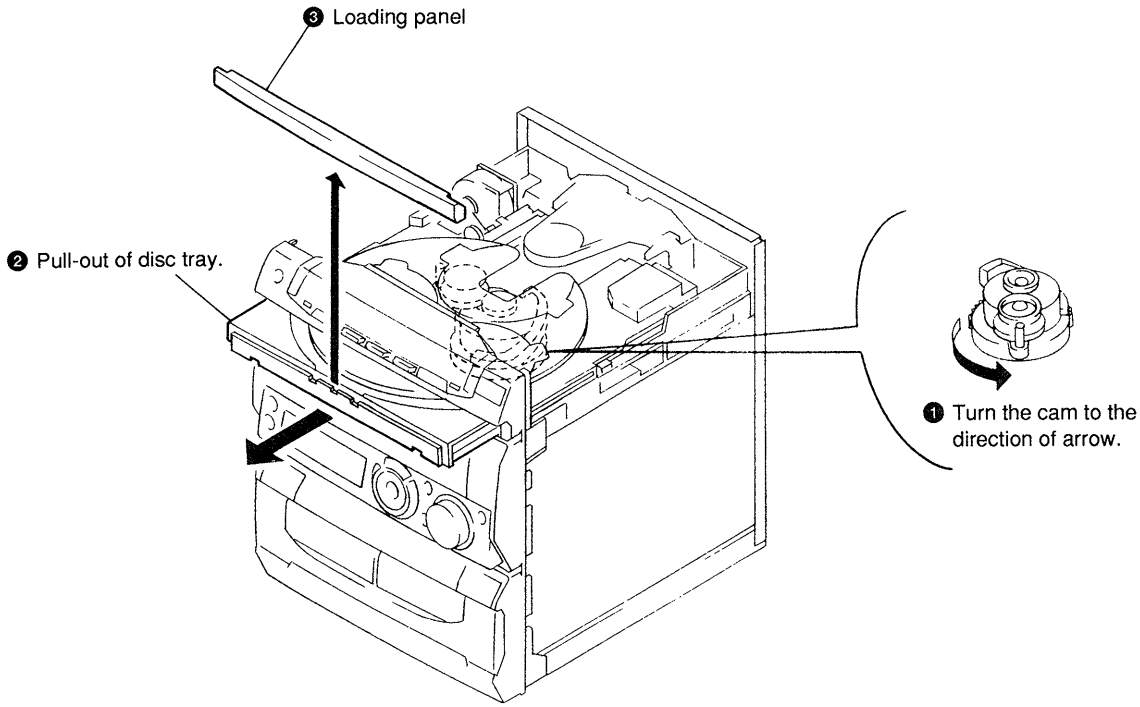
* AMS=Automatic Music Sensor

SECTION 3

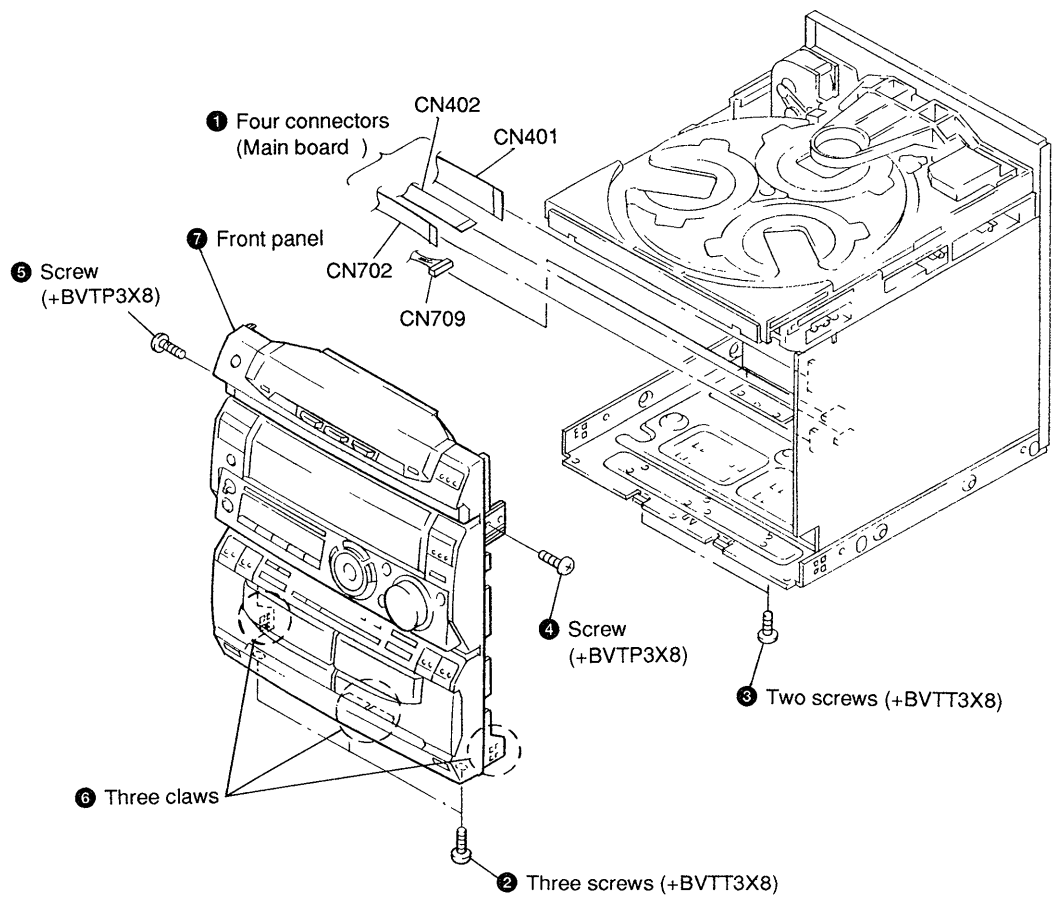
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

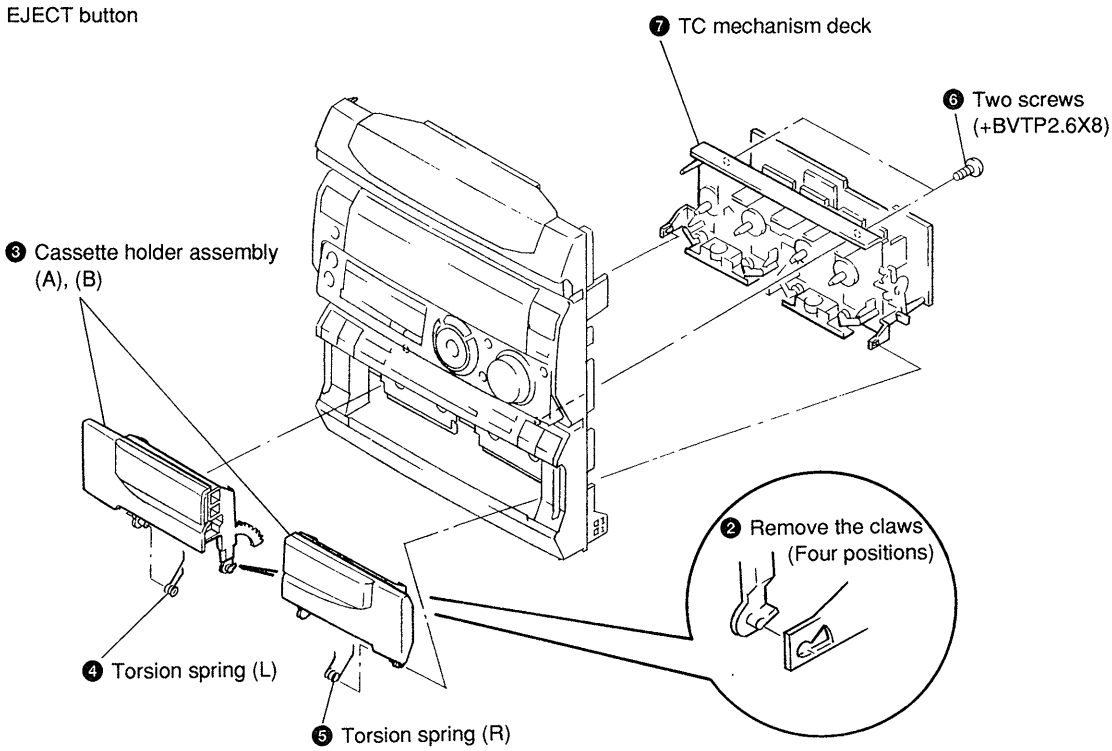
3-1. LOADING PANEL



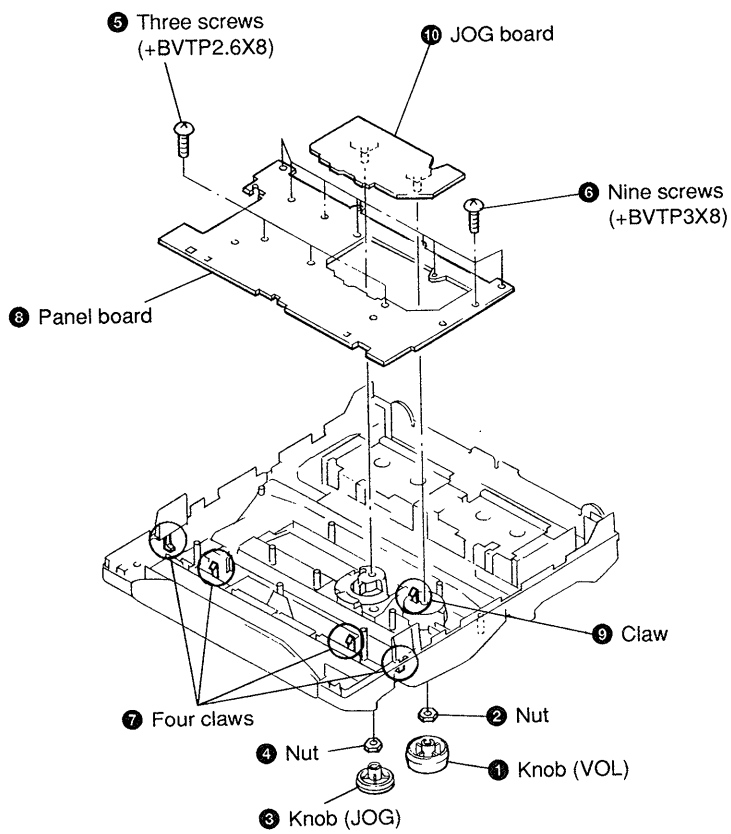
3-2. FRONT PANEL



3-3. TC MECHANISM DECK

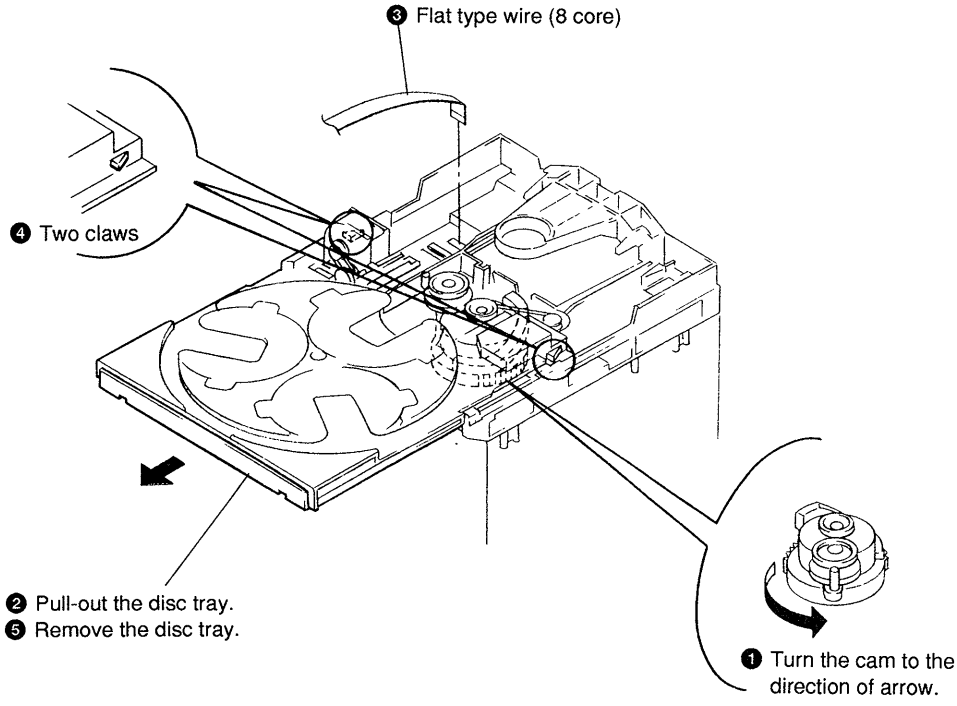


3-4. PANEL BOARD AND JOG BOARD

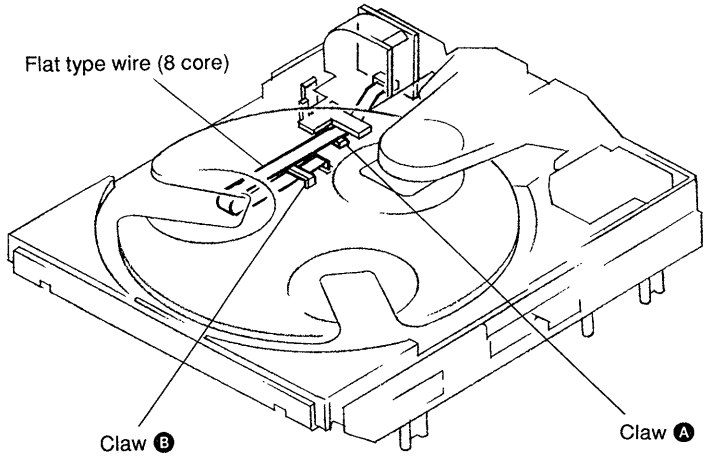


3-5. DISC TRAY

(Perform after removing the front panel.)



Note : When installing the Disc tray, pull around the flat type wire to pass through the claw Ⓐ and claw Ⓑ, as shown in the figure.



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab :
   record/playback heads — pinch rollers
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	36 to 61g • cm (0.5 – 0.84 oz • inch)
FWD back tension	CQ-102C	2 to 6g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	36 to 61g • cm (0.5 – 0.84 oz • inch)
REV back tension	CQ-102RC	2 to 6g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	61 to 143g • cm (0.85 – 1.99 oz • inch)
FWD tension	CQ-403A	100g • cm or more (1.39 oz • inch or more)
REV tension	CQ-403R	100g • cm or more (1.39 oz • inch or more)

SECTION 5
ELECTRICAL ADJUSTMENTS

DECK SECTION **0 dB=0.775V**

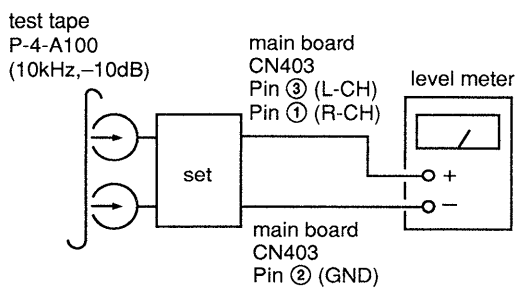
1. Demagnetize the record/playback head with a head damagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-ch.
7. Switches and controls should be set as follows unless otherwise specified.

Tape	Signal	Used for
P-4-A100	10 kHz, –10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

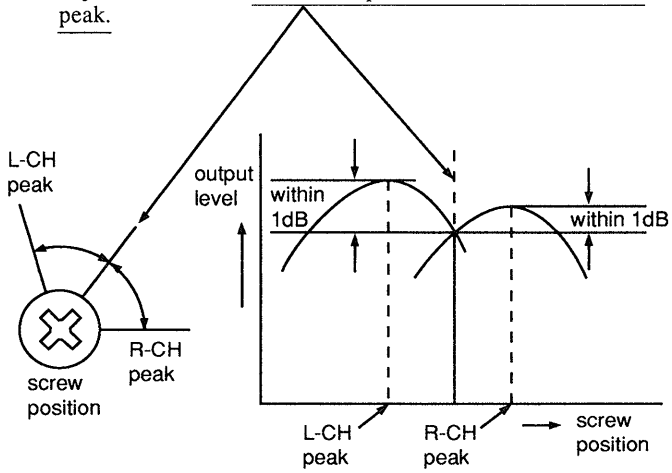
Record/Playback Head Azimuth Adjustment

DECK A **DECK B**

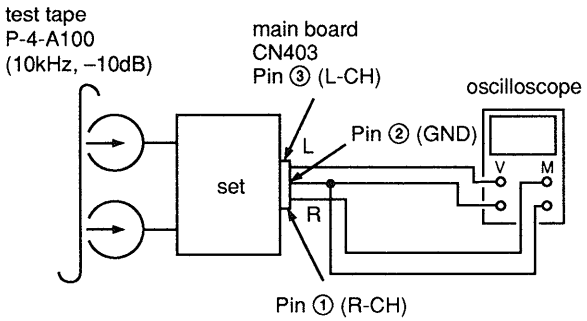
Note : Perform this adjustments for both decks.
Procedure :
1. Mode : Playback

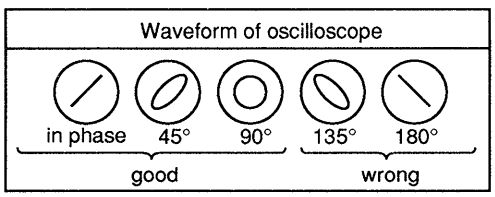


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.



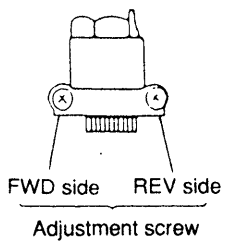
3. Mode : Playback





4. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location : Record/Playback Head (Deck A and B)

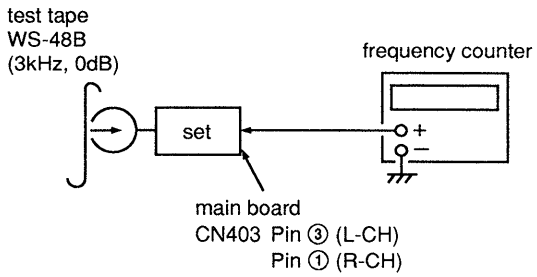


Tape Speed Adjustment DECK A DECK B

Note : Start the TAPE SPEED adjustment as below after setting the test mode.
The tape speed can be changed with the HIGH SPEED DUBBING button during the test mode.

Method :
1. Turn power switch.
2. Press the DISPLAY/DEMO button, MENU 1 button and TUNER/BAND button simultaneously.

Procedure :
Mode : Playback



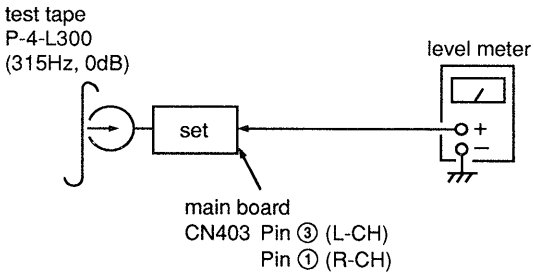
1. Insert the WS-48B into the deck A to playback.
2. Press the HIGH SPEED DUBBING button. Then at HIGH SPEED mode.
3. Adjust the RV652 on the MD board so that the frequency counter reading becomes 6,000 ± 30 Hz.
4. Press the HIGH SPEED DUBBING button again to be set the NORMAL SPEED mode.
5. Set to the playback mode.
6. Adjust the RV651 on the MD board so that the frequency counter reading becomes 3,000 ± 15 Hz.

Frequency difference between deck A and deck B the beginning of the tape should be within ± 1.5%.

Adjustment Location : MD board

Playback Level Adjustment DECK A DECK B

Procedure :
Mode : Playback



Deck A is RV311 (L-CH) and RV411 (R-CH),
deck B is RV301 (L-CH) and RV401 (R-CH)
so that adjustment within adjustment level as follows.

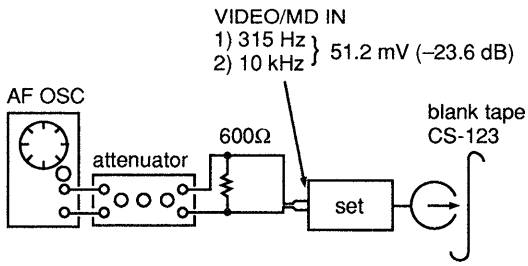
Adjustment level :
CN403 playback level :
301.5 to 338.3 mV (–8.2 to –7.2 dB)
level difference between the channels : within ±0.5 dB

Adjustment Location : MD board

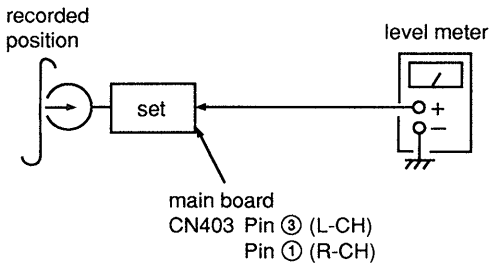
Record Bias Current Adjustment DECK B

Procedure :

1. Set function to VIDEO.
2. Mode : record



3. Mode : Playback



4. Confirm playback the signal recorded in step 2 become adjustment level as follows.
   If these levels do not adjustment level, adjust the RV341 (L-CH) and RV441 (R-CH) on the MD board to repeat steps 2 and 3.

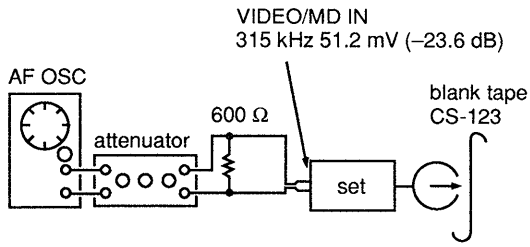
Adjustment level : The playback output of 10 kHz level difference against 315 Hz reference should be ± 0.5 dB.

Adjustment Location : MD board

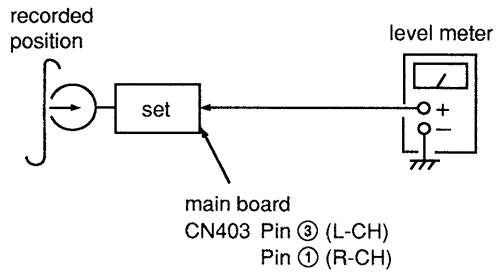
Record Level Adjustment DECK B

Procedure :

1. Set function to VIDEO.
2. Mode: record



3. Mode: Playback



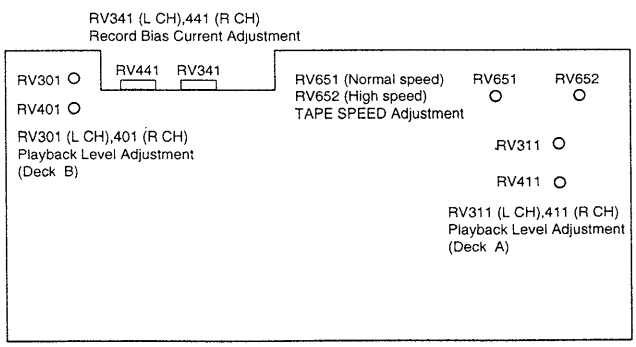
4. Confirm playback the signal recorded in step 2 become adjustment level as follows.
   If these levels do not adjustment level, adjust the RV301 (L-CH) and RV351 (R-CH) on the main board to repeat steps 2 and 3.

Adjustment level :
CN403 PB level : 47.3 to 53.1 mV (–24.3 to –23.3 dB)

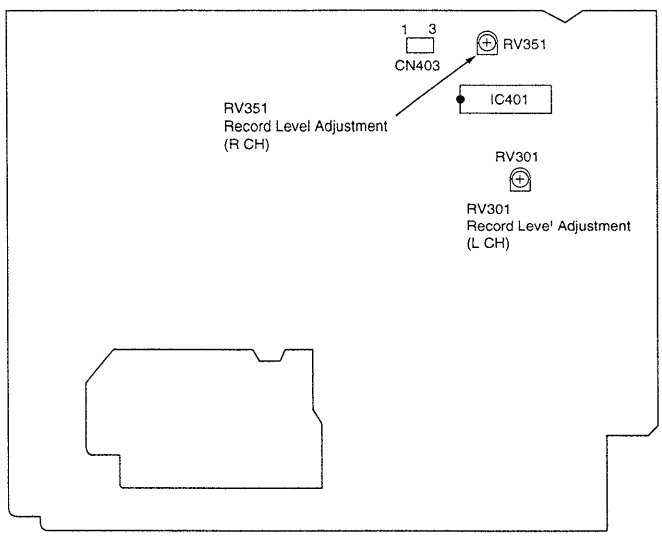
Adjustment Location : MAIN board

Adjustment Location :

[MD BOARD] (Conductor Side)



[MAIN BOARD] (Component Side)



TUNER SECTION | 0dB=1μV

Note 1 : As a front-end (FE1) is difficult to repair if faulty, replace it with new one.

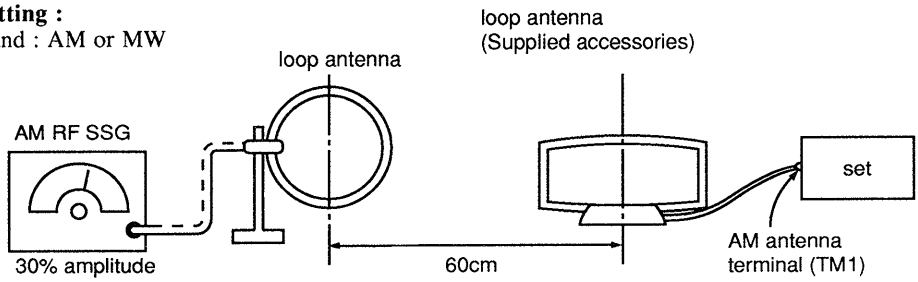
2 : No adjustment is needed due to a tuner pack for except AEP, UK, G, IT, EE, CIS and TH models.

- Abbreviation
  - G : German model.
  - IT : Italian model.
  - EE : East European model.
  - TH : Thailand model.

AM Tuned Level Adjustment

Note : FM Tuned Level adjustment should be performed after this AM Tuned Level Adjustment.

Setting :
Band : AM or MW



Field strength dB (μV/m) = SSG output level dB (μV/m) –26dB.

Modulation : 999 kHz (at 9 kHz step)
1,050 kHz (at 10 kHz step)

Procedure :

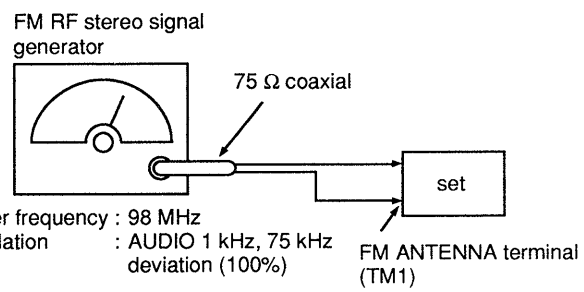
1. Set the output of SSG so that the input level of the set becomes 55 dBμ.
2. Tune the set to 999 kHz or 1,050 kHz.
3. Adjust RV41 (AEP, UK, G, IT, EE, CIS models), RV42 (TH model) to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location : TCB board

FM Tuned Level Adjustment

Note : This adjustment should be after AM Tuned Level Adjustment.

Setting :
Band : FM

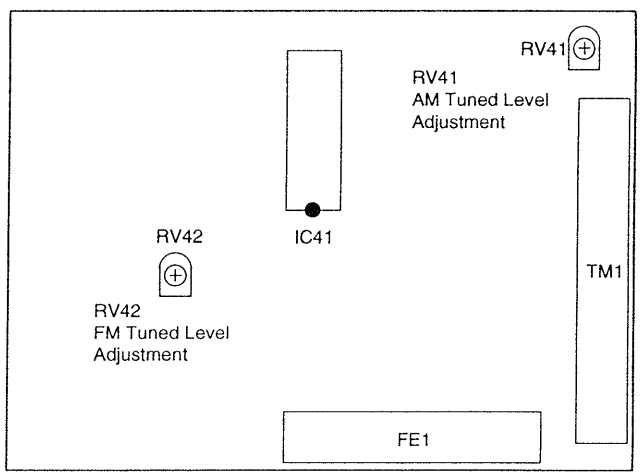


Procedure :

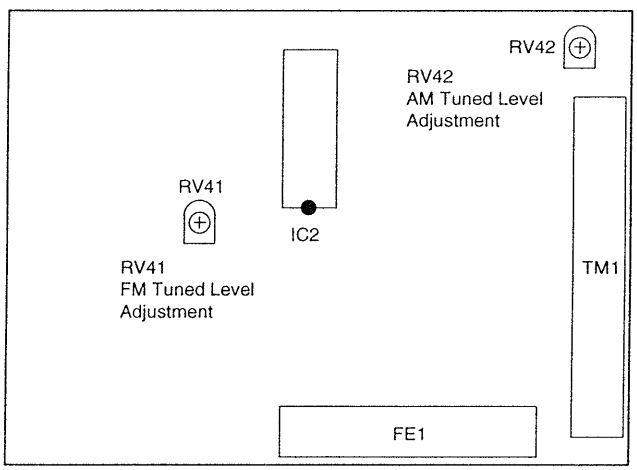
1. Supply a 25 dBμ 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust RV42 (AEP, UK, G, IT, EE, CIS models), RV41 (TH model) to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location : TCB board

Adjustment Location :
AEP, UK, G, IT, EE, CIS model
[TCB BOARD] (Component Side)



TH model
[TCB BOARD] (Component Side)



SW Section Adjustment
SW Control Voltage Adjustment (CIS model)

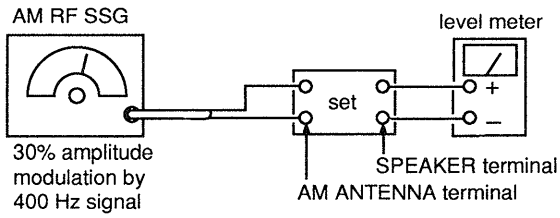
Setting :
Band : SW

Procedure :
1. Connect digital Voltmeter to diode D1 center lead and ground.
2. Adjust for a following value reading on digital voltmeter.

	Set frequency	Adjustment part	Reading on digital voltmeter
SW	5.95 MHz	T2	1.2 ± 0.1 V
	17.9 MHz	CV2	8.5 ± 0.2 V

SW Tracking Adjustment (CIS model)

Setting :
Band : SW



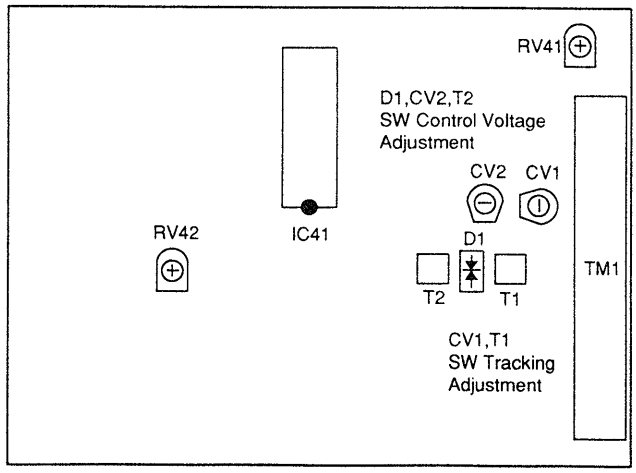
Procedure :
Adjust for maximum reading on level meter.

	Set frequency	Adjustment part
SW	7 MHz	T1
	17 MHz	CV1

- Repeat the procedures is each adjustment several times, and the frequency coverage and tracking adjustment should be finally done by the trimmer capacitors.

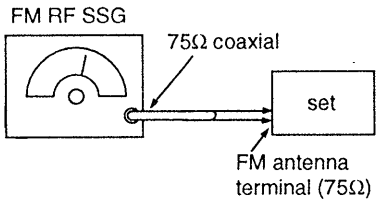
Adjustment Location :

[TCB BOARD] — Component Side—



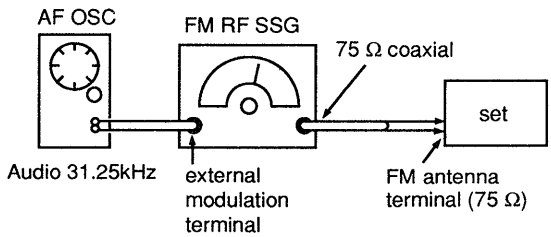
FM Polar Adjustment (CIS model only)

Connection 1 :



Carrier frequency : 69 MHz
Output level : 1 mV (60 dBμ) (at 75 Ω open)
Modulation : AUDIO 1 kHz, 10 kHz deviation

Connection 2 :



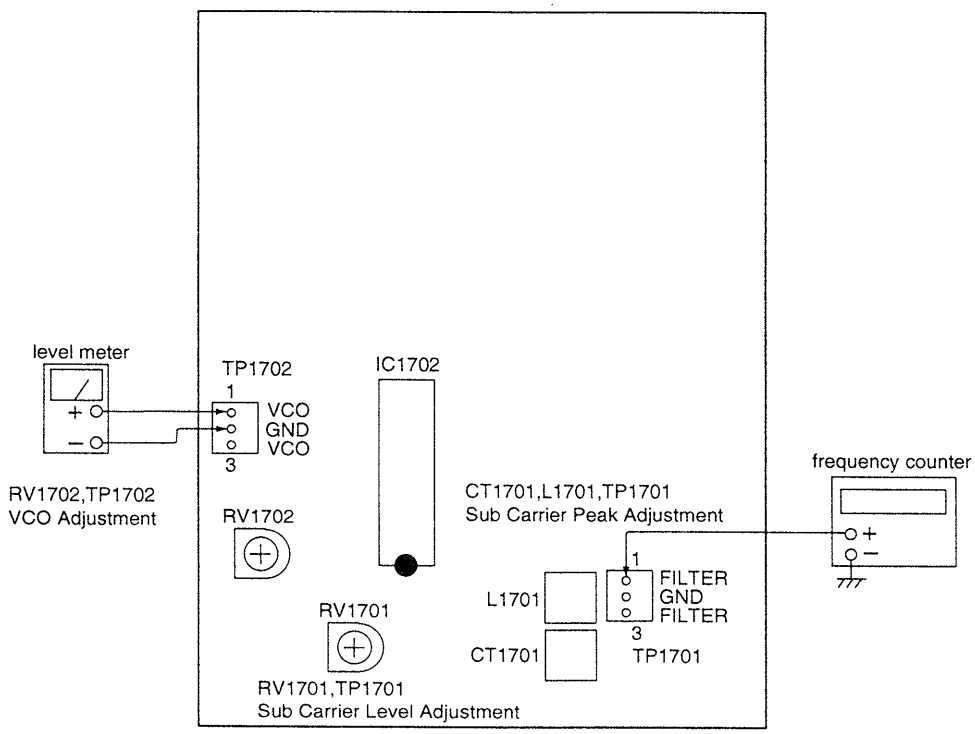
Carrier frequency : 69 MHz
Output level : 1 mV (60 dBμ) (at 75 Ω open)
Modulation : AUDIO 31.25 kHz, 10 kHz deviation
(EXTERNAL MODULATION)

Procedure :

1. Set the modulation of FM RF SSG to AUDIO 1 kHz, 10 kHz deviation according to "Connection 1".
2. Tune the set to 69 MHz.
3. Adjust the RV1702 so that the reading of frequency counter connected to TP1702 becomes within 31.25 kHz ± 0.05 kHz. (VCO adjustment)
4. Then record the reading of the level meter connected to TP1701.
5. Set the modulation of FM RF SSG to AUDIO 31.25 kHz, 10 kHz deviation according to "Connection 2".
6. Tune the set to 69 MHz.
7. Set the CT1701 to be mechanical center.
8. Adjust the L1701 so that the reading of the level meter connected to TP1701 becomes maximum.
   Then adjust the CT1701 so that the reading of the level meter connected to TP1701 becomes maximum. (SUB CARRIER PEAK Adjustment)
9. Adjust the RV1701 so that the level at the moment becomes 14 dB higher value than the level recorded in step 4. (SUB CARRIER LEVEL Adjustment)

Adjustment Location :

[POLAR BOARD] — Component Side—

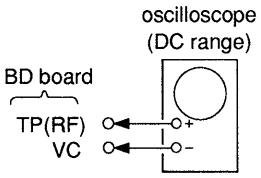


CD SECTION

Note :

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Adjust the focus bias adjustment when optical block is replaced.

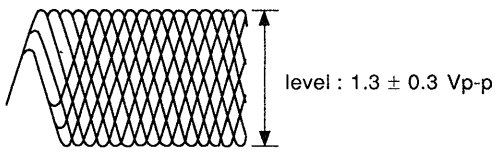
Focus Bias Adjustment



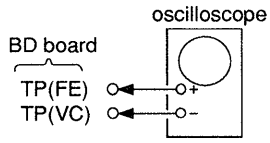
Procedure:

1. Connect oscilloscope to test point TP (RF). (GND terminal : VC)
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Adjust RV101 so that the waveform is clear.
   (Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.)
5. After adjustment, check the RF signal level.

• RF signal
VOLT/DIV : 200 mV
TIME/DIV : 500 nS



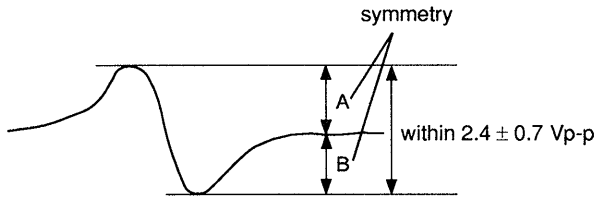
S Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO).
2. Connect between test point TP (FOK) and GND by lead wire.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2.4 ± 0.7 Vp-p.

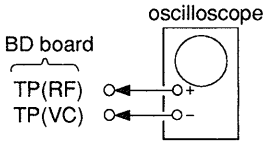
S-curve waveform



6. After check, remove the lead wire connected in step 2.

Note : • Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check



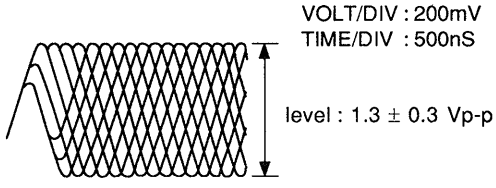
Procedure :

1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

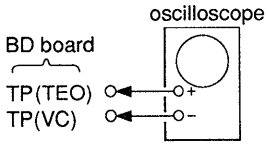
Note :

Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

RF signal waveform

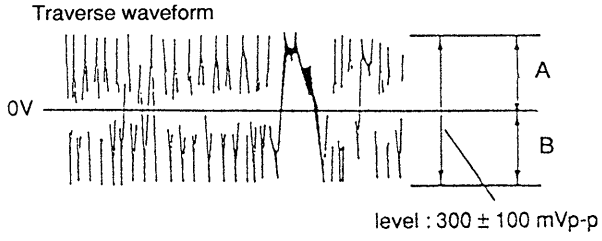


E-F Balance Check



Procedure :

1. Connect test point TP 701 (ADJ) on Main board to GND with a lead wire.
2. Connect oscilloscpe to test point TP (TEO).
3. Turned Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0Vdc, and check this level.



Specified level : • $\frac{A-B}{2(A+B)}$ X 100=less than ± 7%

• A+B=300 ± 100 mVp-p

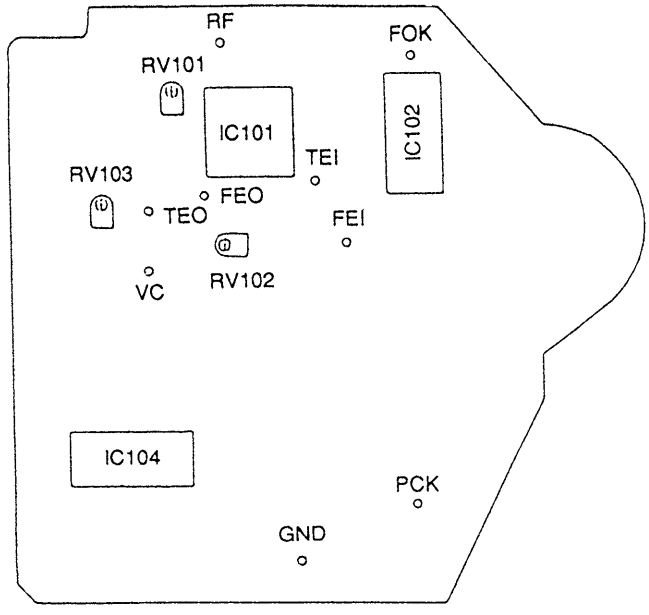
6. Remove the lead wire connected in step 1.

Focus/Tracking Gain Adjustment (RV102, RV103)

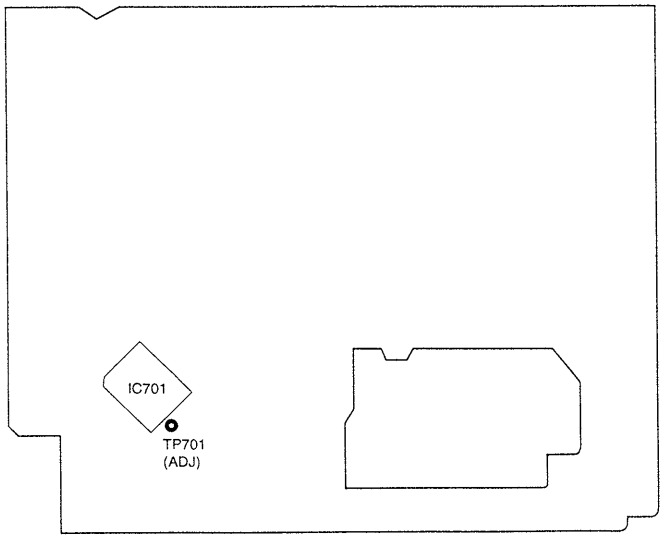
This gain has a margin, so even if it is slightly off.
There is no problem.
Therfore, do not perform this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Location :

[BD BOARD] (Conductor Side)



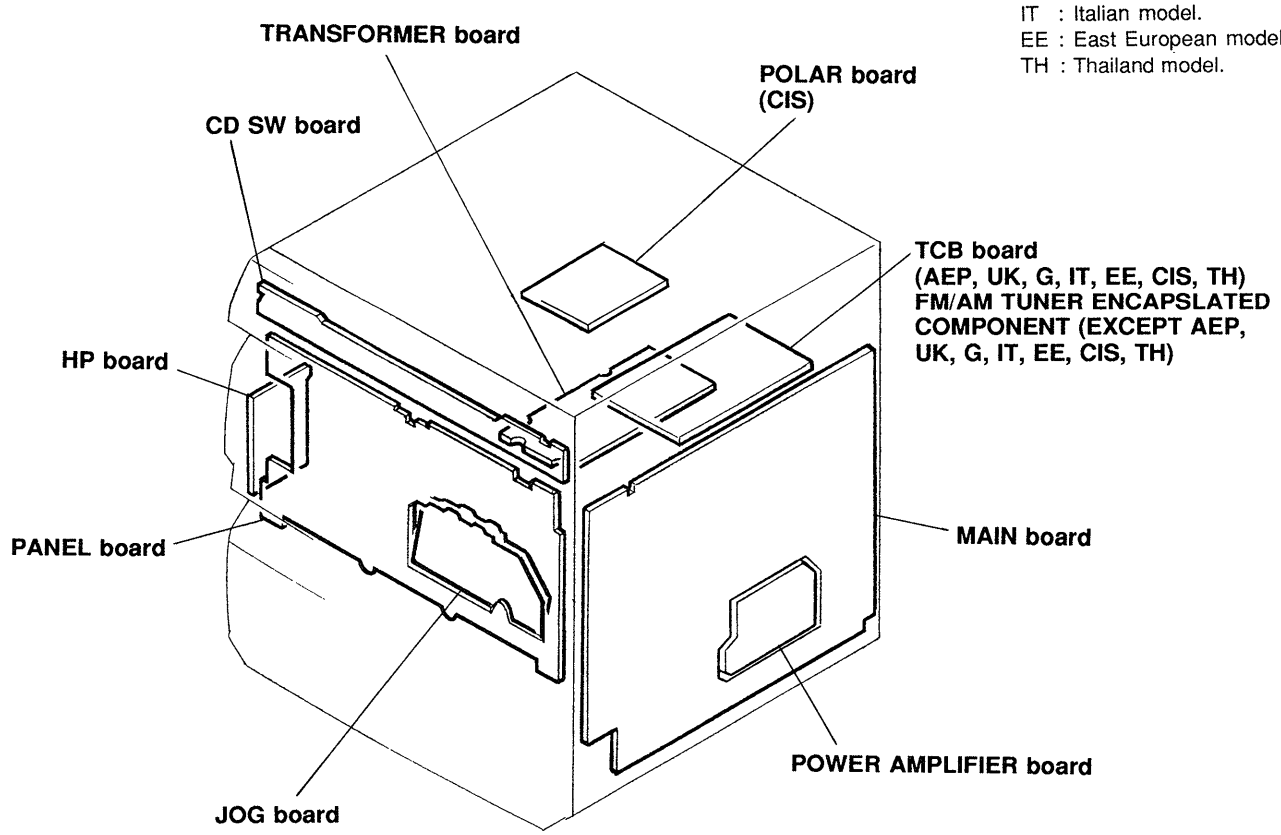
[MAIN BOARD] (Conductor Side)



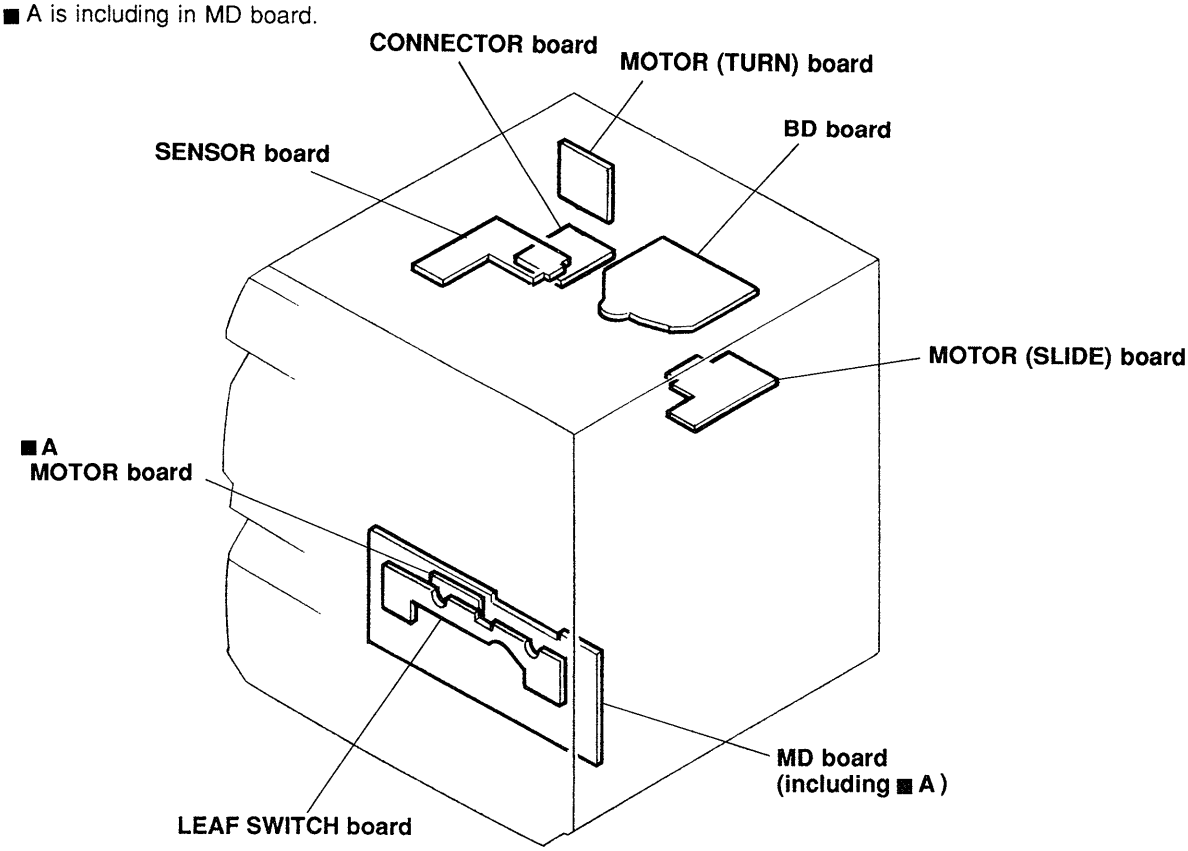
SECTION 6
DIAGRAMS

6-1. CIRCUIT BOARDS LOCATION

Abbreviation
G : German model.
IT : Italian model.
EE : East European model.
TH : Thailand model.



Note : ■ A is including in MD board.



6-2. IC PIN FUNCTION

- **IC500 GRAPHIC CONTROL (ASD0204-012-3BA)**

Pin No.	Pin Name	I/O	Function
1	V_{DD}	–	+5V
2–9	LED8–LED1	O	LED drive signal output.
10	$\overline{RESET}$	I	Reset signal input.
11	X2	O	X'tal (5 MHz).
12	X1	I	
13	IC (Vpp)	–	GND
14	XT2	I	Not used. (Open)
15	JOG B	I	MULTI JOG STATION (S562) encoder signal input.
16	V_{DD}	–	+5V
17, 18	LED10, 9	O	LED drive signal output.
19	KEY SEL	O	Key select control.
20	VOL B	I	Volume encoder signal input.
21	REQ. GM	I/O	Reguest signal from/to master control.
22	CLK MG	I	Serial clock input.
23	DATA GM	O	Serial data output.
24	DATA MG	I	Serial data input.
25	AV_{SS}	–	GND
26–29	SPEANA 4–1	I	Spectram analizer signal input.
30–33	KEY 4–1	I	Key matrix input.
34	AV_{DD}	–	+5V
35	AV_{REF}	–	
36	VOL A	I	Volume encoder signal input.
37	JOG A	I	MULTI JOG STATION (S562) encoder signal input.
38	RDY MG	I	Ready signal from master control.
39	SIRCS	I	SIRCS signal input.
40	V_{SS}	–	GND
41	DOOR. SW	O	LED drive signal output.
42	LED SELECT	O	LED select signal output.
43–45	LED13–11	O	LED drive signal output.
46	V_{DD}	–	+5V
47–50	LEDS7–4	O	Not used.
51–53	LEDS3–1	O	LED drive signal output.
54–78	SEG32–8	O	FL segment signal output.
79	V. LOAD	–	-25V for FL
80–86	SEG7–1	O	FL segment signal output.
87–100	GR14–1	O	FL grid signal output.

- Abbreviation
  FL : FLUORESCENT INDICATOR TUBE
  GND : Ground

- **IC701 MASTER CONTROL (TMP87CP64YF)**

Pin No.	Pin Name	I/O	Function
1	Vss	–	GND
2	XOUT	O	X'tal (10 MHz).
3	XIN	I	
4	$\overline{\text{RESET}}$	I	Reset signal input.
5	XOUT	O	X'tal for clock (32.768 kHz)
6	XIN	I	
7	GND (test)	–	GND
8	$\overline{\text{AC CUT}}$	I	Back up signal input.
9	SUPER WOOFER ON	O	Not used. (Connected to GND)
10	ST-MUTE ON	O	Mute signal output for tuner.
11	$\overline{\text{180-A-PLAY}}$	I	Tape detection signal input. (Not used) (Connected to GND)
12	$\overline{\text{180-B-PLAY}}$	I	
13	$\overline{\text{180-B-REC}}$	I	
14	CLK CHK	I	Not used.
15	UP-SW	I	Disc table up detect. (Not used)
16	IN-SW	I	Not used.
17	ENCODER-0	I	Disctray address detect encoder input.
18	ENCODER-1	I	
19	ENCODER-2	I	
20	$\overline{\text{OUT SW OPEN}}$	I	Out switch signal input.
21	LOAD IN	O	Loading motor control signal output.
22	LOAD OUT	O	
23	TBL-L	O	Table motor control signal output.
24	TBL-R	O	
25	SCOR	I	Sub-code sync signal input.
26	TBL-SENS	I	CD Table sensor signal input.
27	RDS INT	I	RDS data start input. (Connected to GND)
28	RDS DATA	I	RDS data output. (Connected to GND)
29	DF LAT	O	Latch signal for digital filter.
30	SENS	I	Table sence signal input.
31	$\overline{\text{XRST}}$	O	Reset signal output for CD.
32	MG-RDY	O	Ready signal to graphic control.
33	ADJ	I	Test mode input.
34	$\overline{\text{GM-REQ}}$	I	Request signal from graphic control.
35	MG-CLK	O	Clock signal to graphic control.
36	GM-DATA	I	Data input from graphic control.
37	MG-DATA	O	Data output to graphic control.
38	CD-CLK	O	Clock output. Serial bus line.
39	$\overline{\text{ADJ-2}}$	I	Test mode input.
40	CD-DATA	O	Data output. Serial bus line.

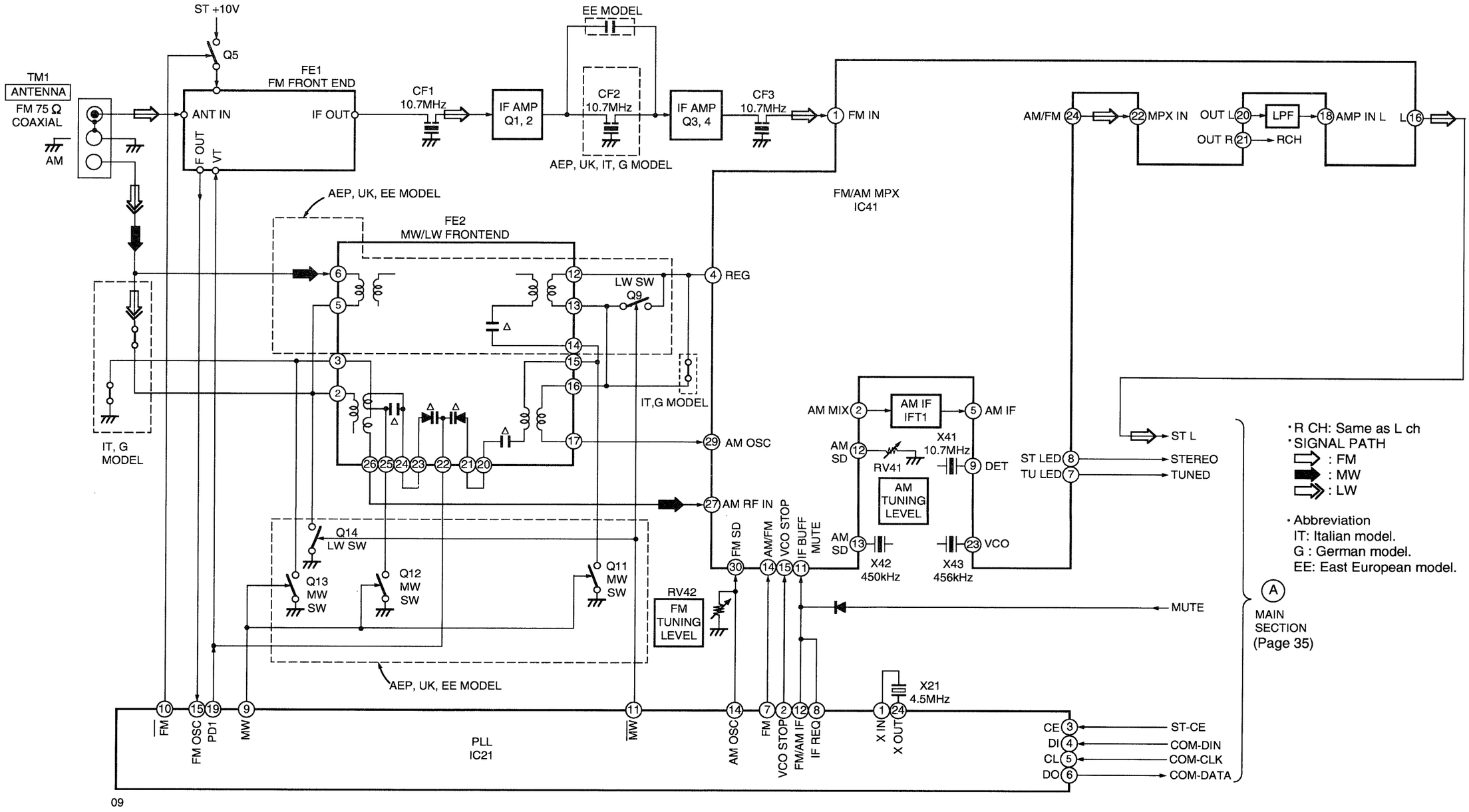
- Abbreviation
  GND : Ground

Pin No.	Pin Name	I/O	Function
41	AUB IN	I	Audio bus in/output. (Open)
42	AUB OUT	O	
43	FOCUS SW	O	Focus switching signal output,.
44	SQ-CLK	O	Subcode Q data read clock output.
45	SQ-DATA	I	Subcode Q data input.
46	X-LAT	O	Latch signal digital signal processor.
47	TEST	I	Test land.
48	VAREF	I	Analog reference voltage input.
49	VAss	–	GND
50	Vss	–	
51	V_{DD}	–	+5V
52	SPEC	I	Destination detection setting input.
53	DESTINATION	I	
54	DISC SENS	I	Not used. (Connected to GND)
55	TC RELAY	O	REC/PB select signal output.
56	A-SHUT	I	Control signal input from deck.
57	B-SHUT	I	
58	B-HALF	I	
59	A-HALF	I	
60	220-A-PLAY	I	
61	220-B-PLAY	I	
62	62427 LAT	O	PLL latch output.
63	K-CON-LAT	O	Not used.
64	VOL LAT (AV)	O	Latch signal for electrical volume. (Not used) (Open)
65	REAR SP RELAY B	O	Not used. (Open)
66	FRONT SP RELAY C	O	
67	$\overline{\text{POWER ON}}$	O	Power on signal output.
68	CD POWER	O	CD power control signal output.
69	$\overline{\text{PROLOG LAT}}$	O	Not used. (Open)
70	$\overline{\text{MUTE}}$	O	Mute signal for AMP.
71	COM CLK	O	PLL clock output.
72	COM DIN	I	PLL data input.
73	COM DATA	O	PLL data output.
74	$\overline{\text{K CON ON}}$	O	Not used. (Open)
75	LIDDED LED	O	Disc No. LED drive signal output. (Not used) (Open)
76	$\overline{\text{PROLOG ON}}$	O	PRO LOGIC control output.
77	DBFB-HIGH	O	DBFB switching signal output.
78	$\overline{\text{URG STB STDBY}}$	I	Not used.
79	$\overline{\text{URG STB ON}}$	O	
80	$\overline{\text{TC A}}$	O	Deck A, B select output.

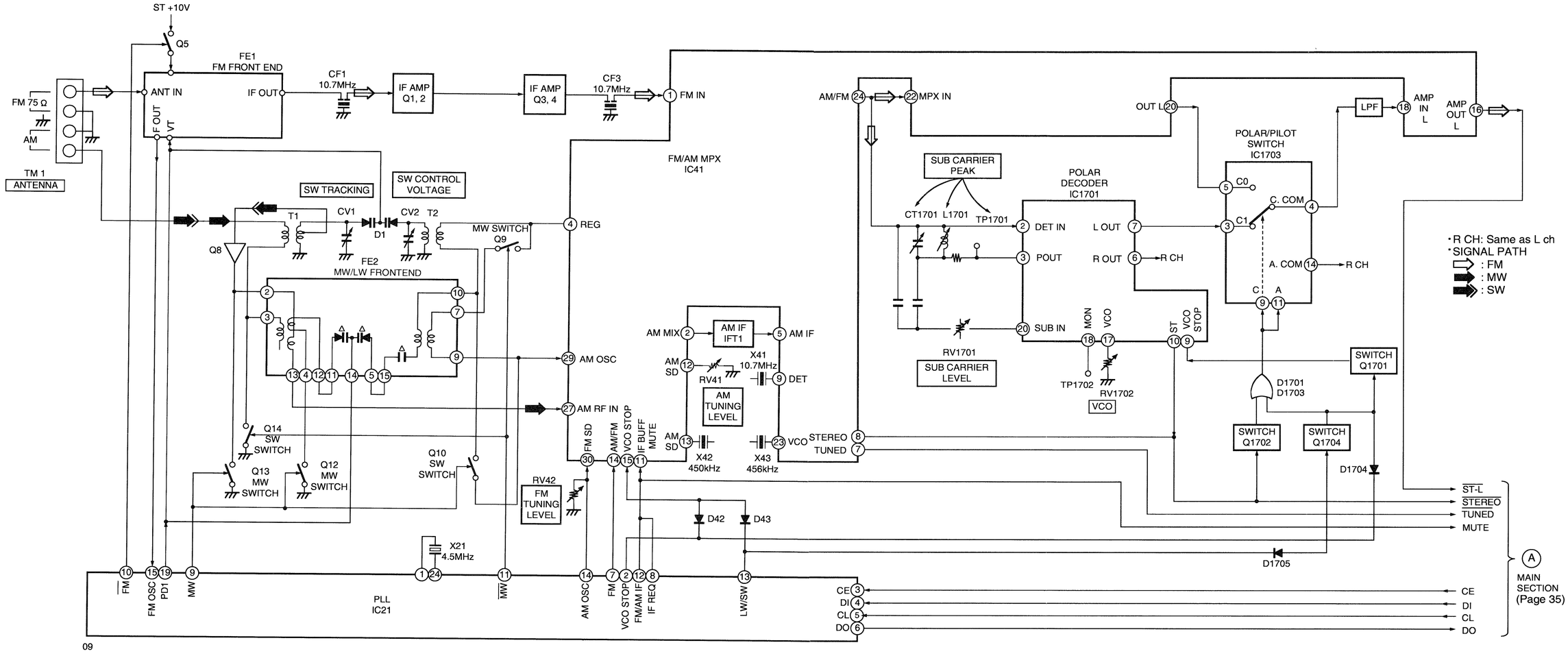
Pin No.	Pin Name	I/O	Function
81	$\overline{\text{NORM}}$	O	NORMAL/HIGH control signal output.
82	$\overline{\text{BIAS OFF}}$	O	Bias oscillation output.
83	$\overline{\text{REC MUTE}}$	O	Mute output.
84	$\overline{\text{NR OFF}}$	O	Dolby ON/OFF signal output.
85	$\overline{\text{PB}}$	O	REC/PB control signal output.
86	$\overline{\text{PASS. AMP/DOLBY}}$	O	Dolby switching signal output.
87	$\overline{\text{LINE MUTE ON}}$	O	Mute signal output for deck.
88	$\overline{\text{CAP. M-HIGH}}$	O	Capstan motor control signal output.
89	A-TRG	O	Trigger motor control signal output.
90	B-TRG	O	
91	$\overline{\text{TRG LOW}}$	O	Trigger motor high/low control signal output.
92	$\overline{\text{CAP M ON}}$	O	Capstan motor ON/OFF control signal output.
93	$\overline{\text{STEREO}}$	I	Stereo detection signal from tuner.
94	$\overline{\text{TUNED}}$	I	Tuned detection signal from tuner.
95	ST-CE	O	Latch signal output for tuner.
96	$\overline{\text{DELAY SEL MIC}}$	O	Not used. (Connected to GND)
97	$\overline{\text{DELAY ON}}$	O	
98	DELAY LEVEL A	O	
99	DELAY LEVEL B	O	
100	V_{DD}	–	+5V

6-3. BLOCK DIAGRAMS

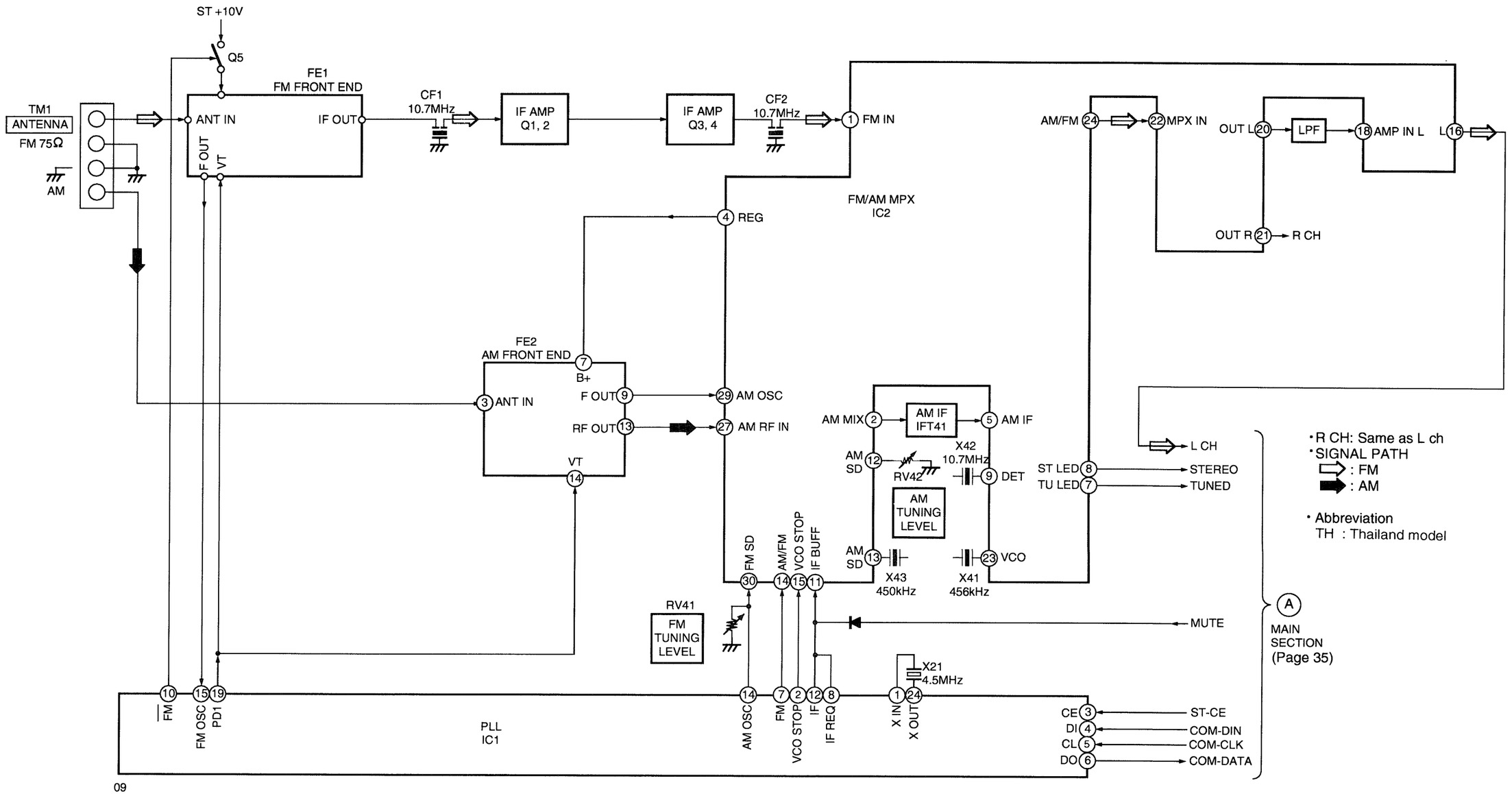
— TUNER SECTION — (AEP, UK, G, IT, EE MODELS)



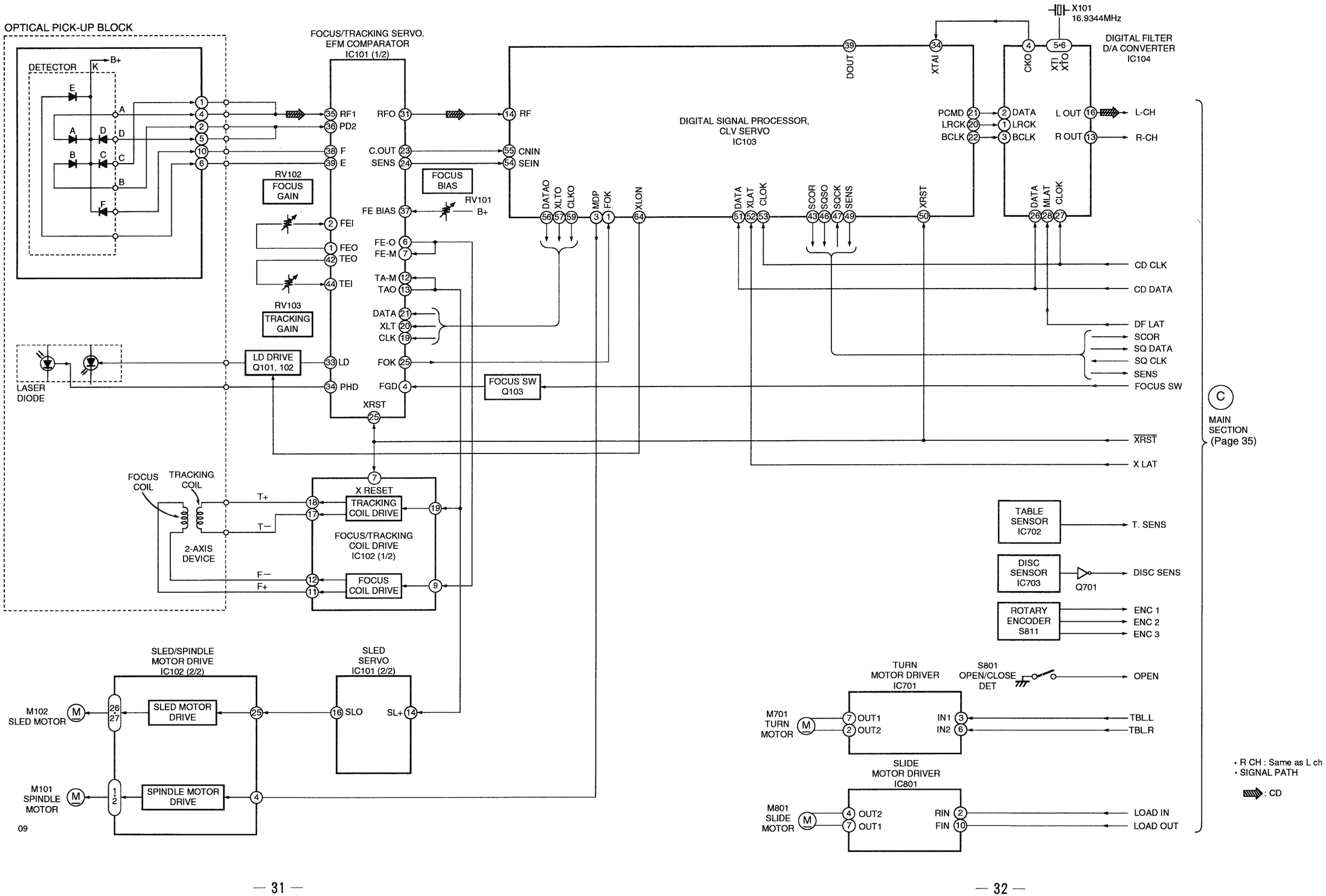
— TUNER SECTION — (CIS MODEL)



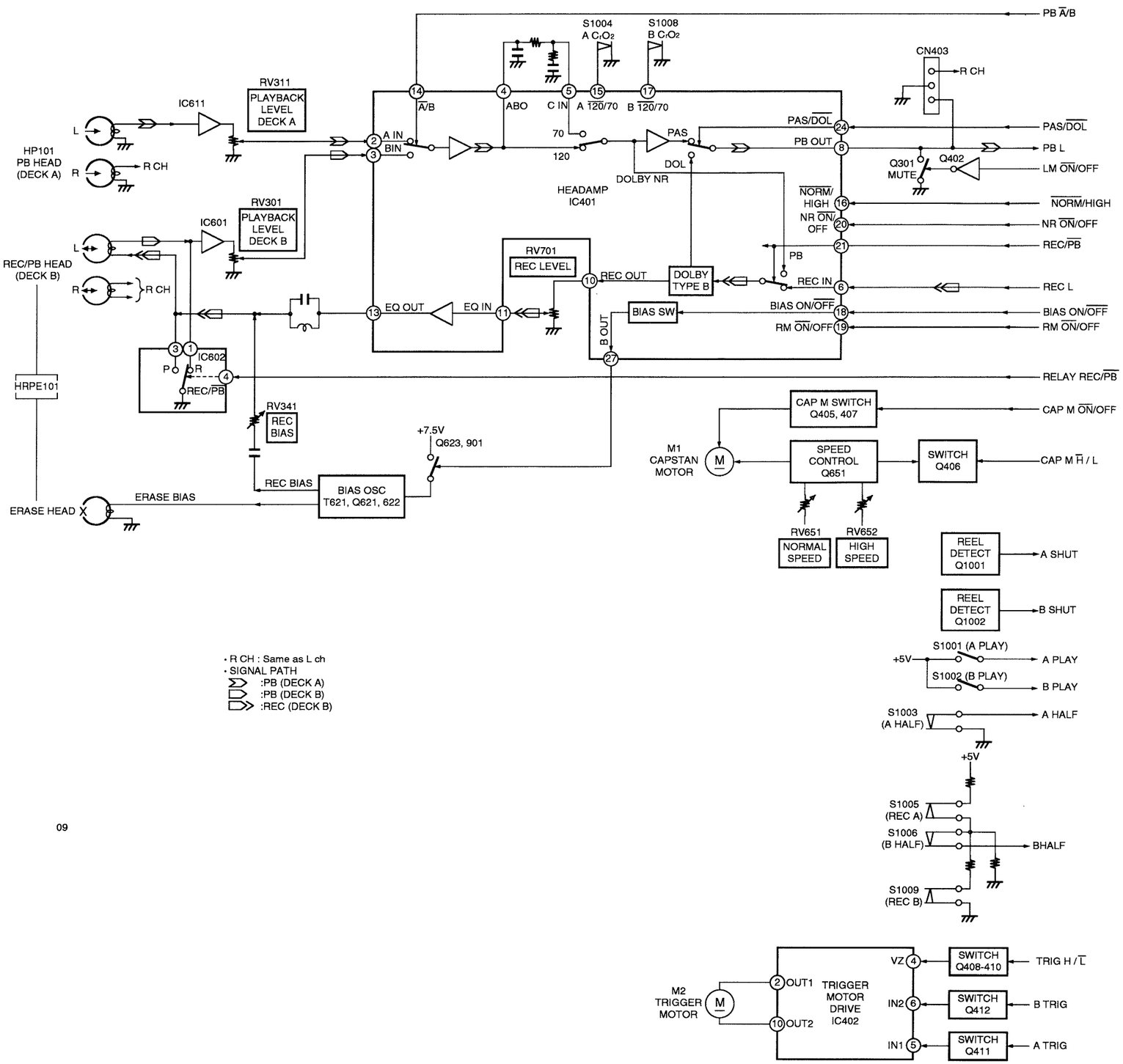
— TUNER SECTION — (TH MODEL)



— CD SECTION —


OPTICAL PICK-UP BLOCK
DETECTOR
B+
K
E
A
D
B
C
F
FOCUS/TRACKING SERVO.
EFM COMPARATOR
IC101 (1/2)
RF1
PD2
F
E
RFO
C.OUT
SENS
FE BIAS
FE-O
FE-M
TA-M
TAO
DATA
XLT
CLK
FOK
FGD
XRST
RV102
FOCUS
GAIN
RV103
TRACKING
GAIN
FOCUS
BIAS
RV101
B+
FEI
FEO
TEO
TEI
LD DRIVE
Q101, 102
LD
PHD
LASER
DIODE
FOCUS SW
Q103
RF
CNIN
SEIN
DATAO
XLTO
CLKO
MDP
FOK
XLON
DOUT
XTAI
CKO
XTI
XTO
X101
16.9344MHz
DIGITAL FILTER
D/A CONVERTER
IC104
DIGITAL SIGNAL PROCESSOR,
CLV SERVO
IC103
PCMD
LRCK
BCLK
DATA
LRCK
BCLK
L OUT
R OUT
L-CH
R-CH
DATA
XLAT
CLOK
SCOR
SQSO
SQCK
SENS
XRST
DATA
MLAT
CLOK
CD CLK
CD DATA
DF LAT
SCOR
SQ DATA
SQ CLK
SENS
FOCUS SW
XRST
X LAT
C
MAIN
SECTION
(Page 35)
FOCUS
COIL
TRACKING
COIL
T+
T—
F—
F+
2-AXIS
DEVICE
X RESET
TRACKING
COIL DRIVE
FOCUS/TRACKING
COIL DRIVE
IC102 (1/2)
FOCUS
COIL DRIVE
SLED/SPINDLE
MOTOR DRIVE
IC102 (2/2)
SLED
SERVO
IC101 (2/2)
M102
SLED MOTOR
SLED MOTOR
DRIVE
SLO
SL+
M101
SPINDLE
MOTOR
SPINDLE MOTOR
DRIVE
09
TABLE
SENSOR
IC702
T. SENS
DISC
SENSOR
IC703
Q701
DISC SENS
ROTARY
ENCODER
S811
ENC 1
ENC 2
ENC 3
TURN
MOTOR DRIVER
IC701
S801
OPEN/CLOSE
DET
OPEN
M701
TURN
MOTOR
OUT1
OUT2
IN1
IN2
TBL.L
TBL.R
SLIDE
MOTOR DRIVER
IC801
M801
SLIDE
MOTOR
OUT2
OUT1
RIN
FIN
LOAD IN
LOAD OUT
• R CH : Same as L ch
• SIGNAL PATH
: CD

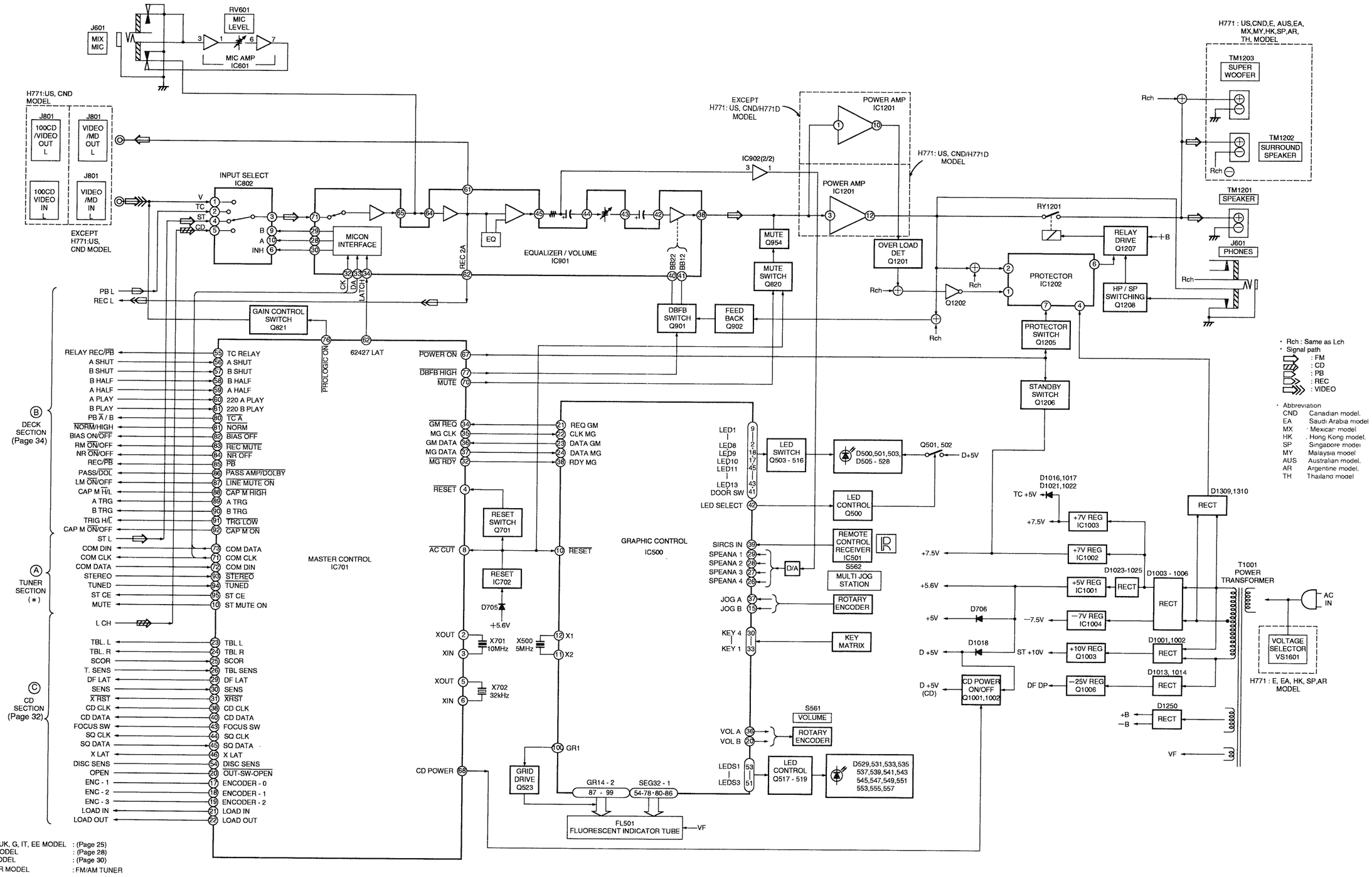
— TC SECTION —



- R CH : Same as L ch
- SIGNAL PATH
  - :PB (DECK A)
  - :PB (DECK B)
  - :REC (DECK B)

09

— MAIN SECTION —

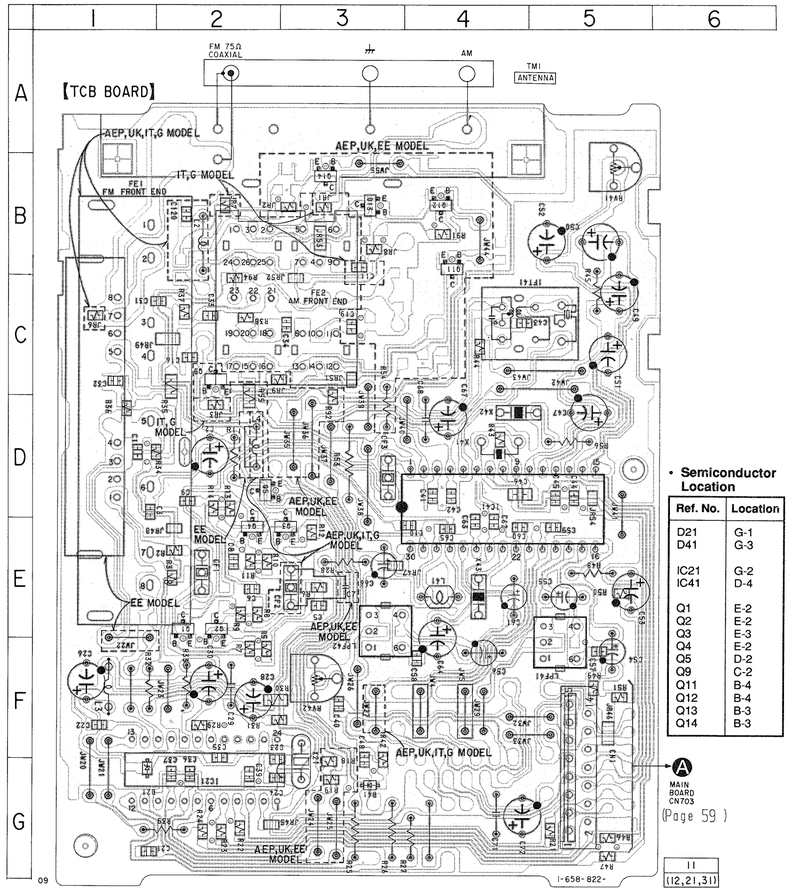


* AEP, UK, G, IT, EE MODEL : (Page 25)
CIS MODEL : (Page 28)
TH MODEL : (Page 30)
OTHER MODEL : FM/AM TUNER

09

6-4. PRINTED WIRING BOARD — TUNER SECTION — (AEP, UK, G, IT, EE MODELS)

• See page 19 for Circuit Boards Location.



• **Semiconductor Location**

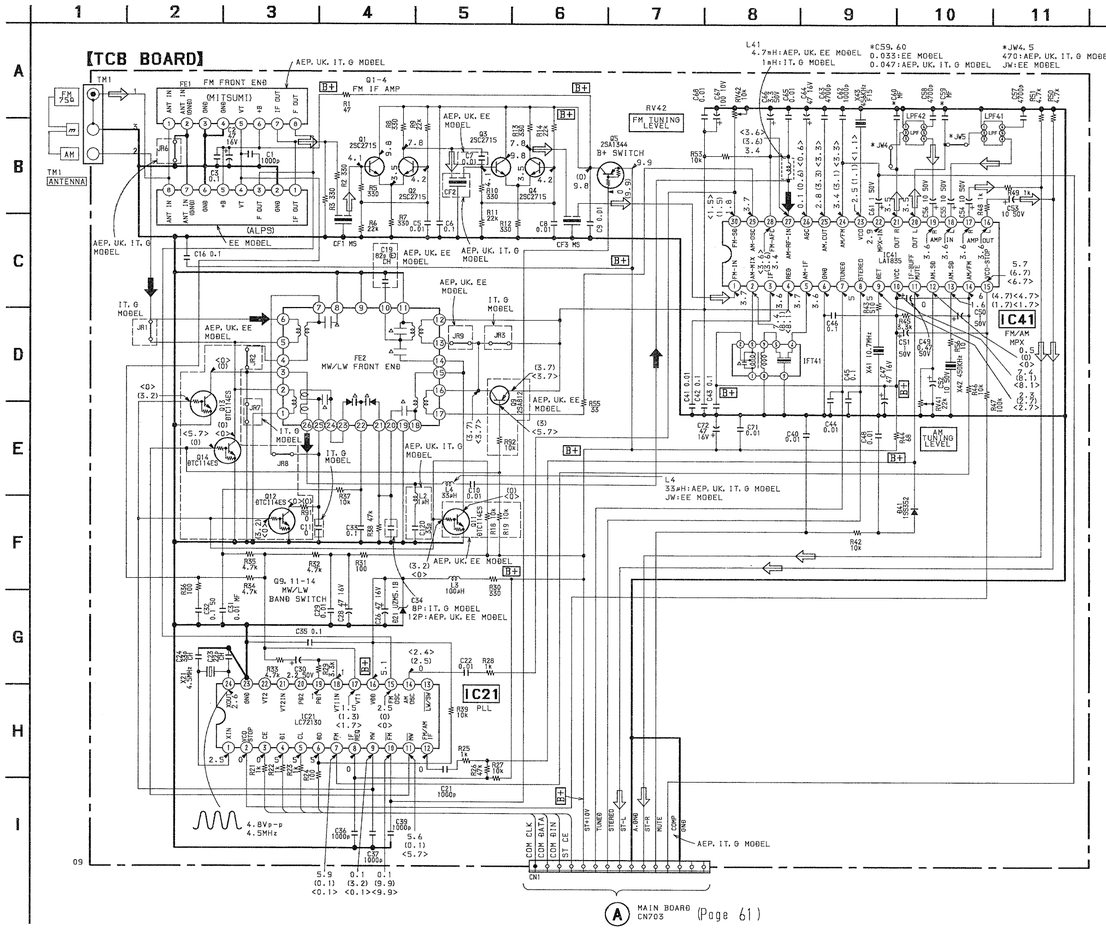
Ref. No.	Location
D21	G-1
D41	G-3
IC21	G-2
IC41	D-4
Q1	E-2
Q2	E-2
Q3	E-3
Q4	E-2
Q5	D-2
Q9	C-2
Q11	B-4
Q12	B-4
Q13	B-3
Q14	B-3

Note:
- ○—— : parts extracted from the component side.
- △ : internal component.
- ▭ : Pattern from the side which enable seeing.

Abbreviation
G : German model.
IT : Italian model.
EE : East European model.

6-5. SCHEMATIC DIAGRAM — TUNER SECTION — (AEP, UK, G, IT, EE MODELS)

• See page 47 for IC Block Diagrams.



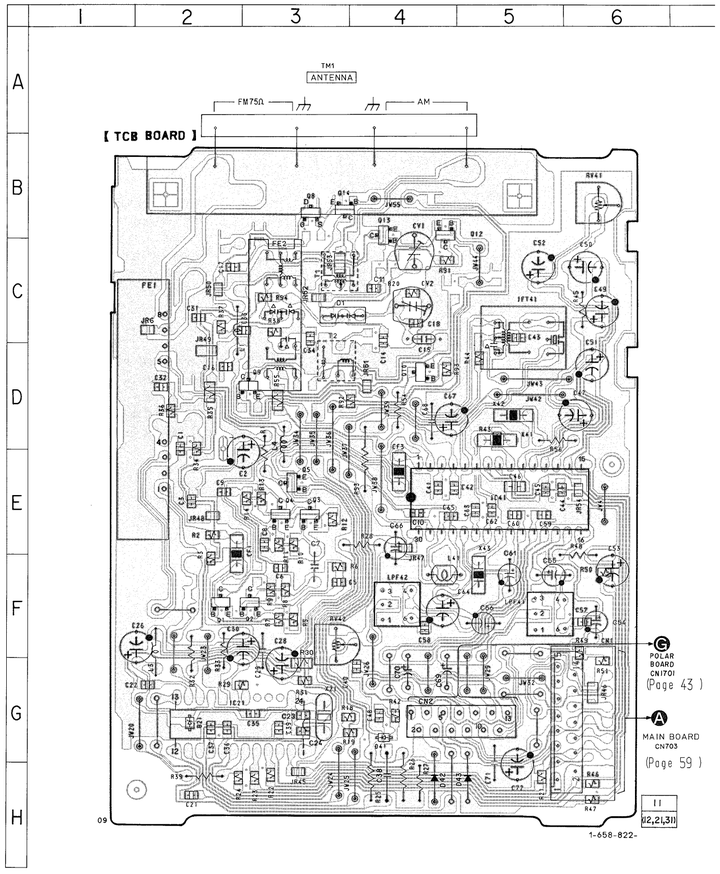
NOTE
- All capacitors are in μF unless noted.pF:μμF 50WV or less are not indicated except for electrolytics and tantaiums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ :internal component.
- ▭ :panel designation.
- B+ :B+ Line.
- ▭ :adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark:FM
  ( ):MW
  < >:LW
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  G :German model.
  IT :Italian model.
  EE :East European model.
- Signal path.
  ⇨ :FM
  ➡ :AM

6-6. PRINTED WIRING BOARD — TUNER SECTION — (CIS MODEL)

• See page 19 for Circuit Boards Location.

• **Semiconductor Location**

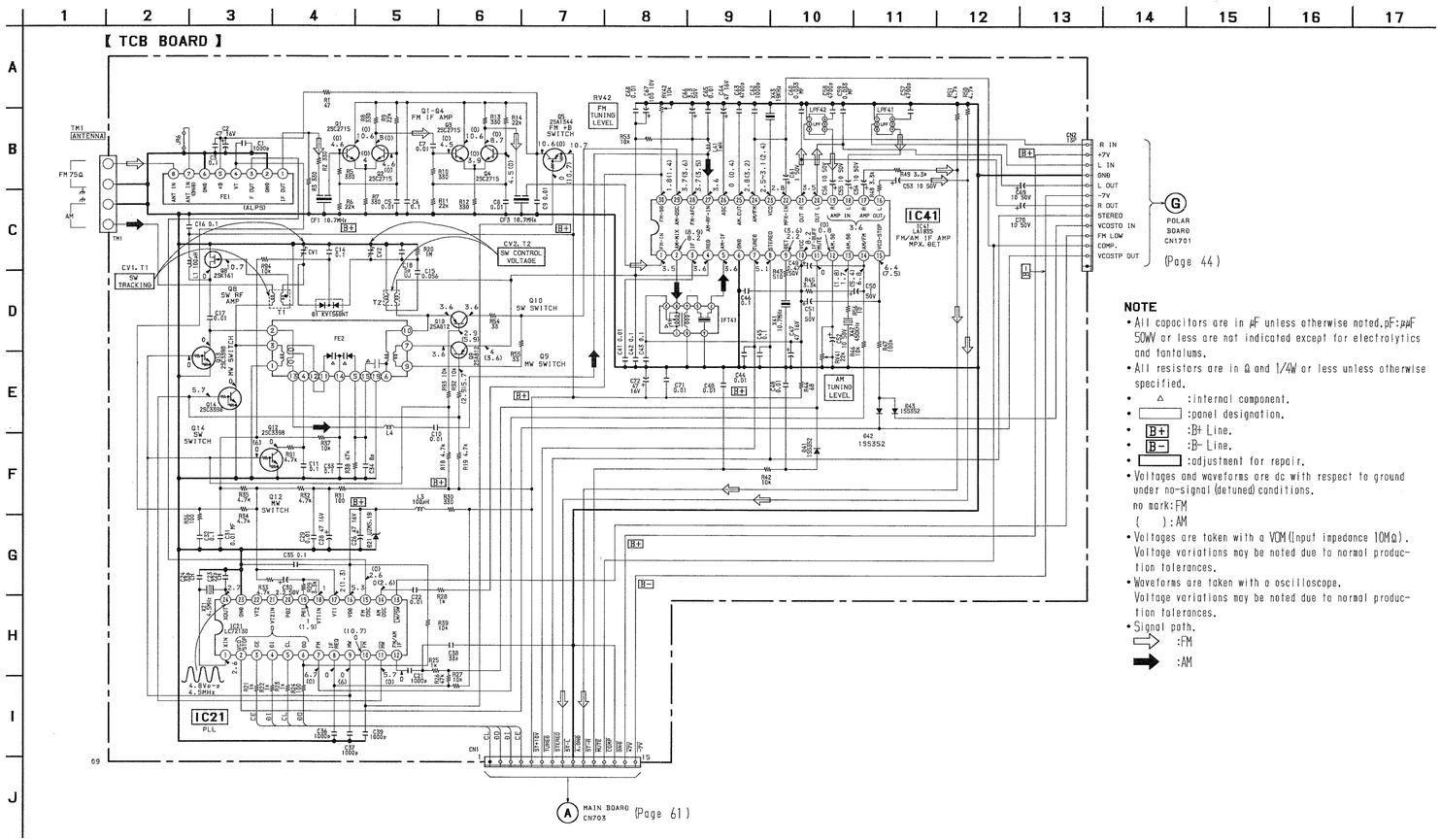
Ref. No.	Location
D1	C-3
D21	G-2
D41	G-4
D42	H-4
D43	H-4
IC21	G-2
IC41	E-5
Q1	F-2
Q2	F-3
Q3	E-3
Q4	E-3
Q5	E-3
Q8	B-3
Q9	D-3
Q10	D-4
Q12	B-5
Q13	B-4
Q14	B-3



Note:
- ○—— : parts extracted from the component side.
- △ : internal component.
- ▨ : Pattern from the side which enable seeing.

6-7. SCHEMATIC DIAGRAM — TUNER SECTION — (CIS MODEL)

• See page 47 for IC Block Diagrams.

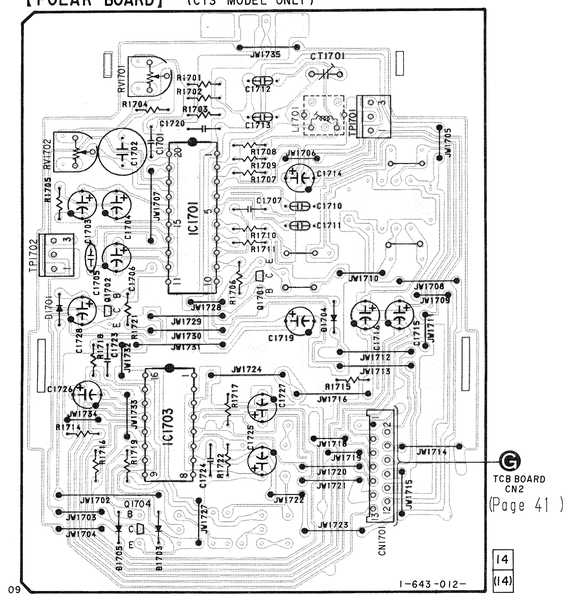


NOTE
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ :internal component.
- ▭ :panel designation.
- B+ :B+ Line.
- B− :B− Line.
- ▭ :adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
  ( ): AM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ :FM
  ➡ :AM

6-8. PRINTED WIRING BOARD — POLAR SECTION —

• See page 19 for Circuit Boards Location.

【POLAR BOARD】 (CIS MODEL ONLY)

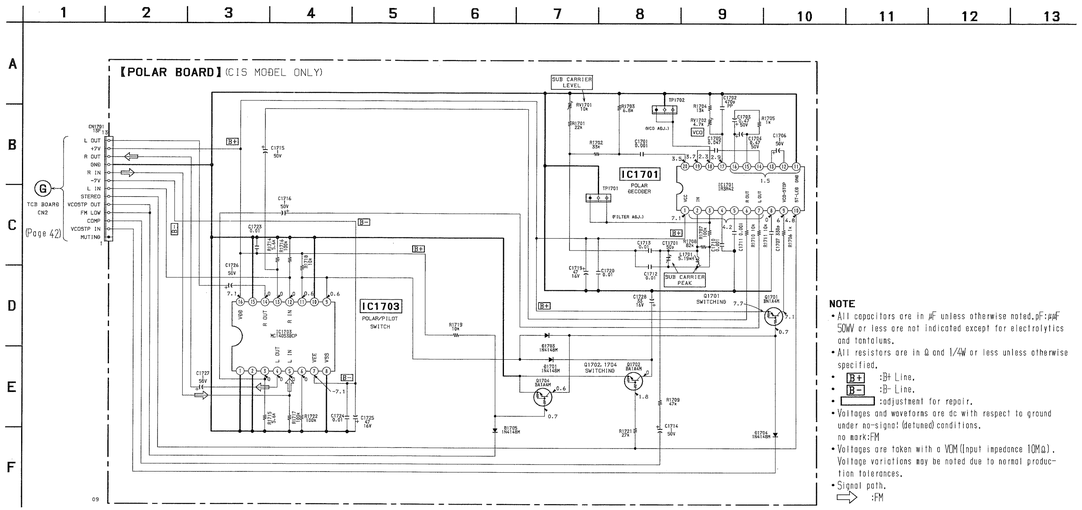


• Semiconductor Location

Ref. No.	Location
D1701	C-1
D1703	E-2
D1704	C-3
D1705	E-2
IC1701	B-2
IC1703	D-2
Q1701	C-3
Q1702	C-1
Q1704	E-2

Note:
- ○—— : parts extracted from the component side.
- ▭ : Pattern from the side which enable seeing.

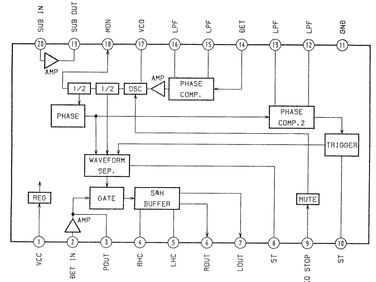
6-9. SCHEMATIC DIAGRAM — POLAR SECTION —



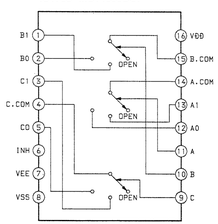
NOTE
- All capacitors are in μF unless otherwise noted. pF: pμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- B+ :B+ Line.
- B- :B- Line.
- ▭ :adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions. no mark:FM
- Voltages are taken with a VOM (input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path. ⇨ :FM

• IC Block Diagrams

IC1701 IR3R42

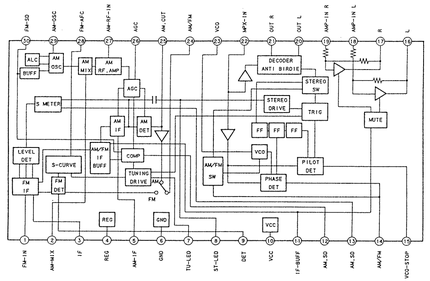


IC1703 MC14053BCP

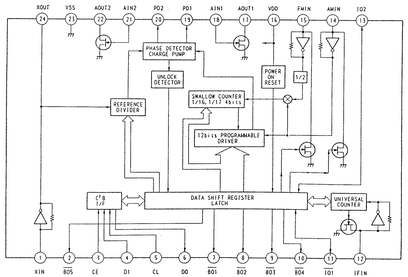


• IC Block Diagrams

IC1, 21 LC72130



IC2, 41 LA1835



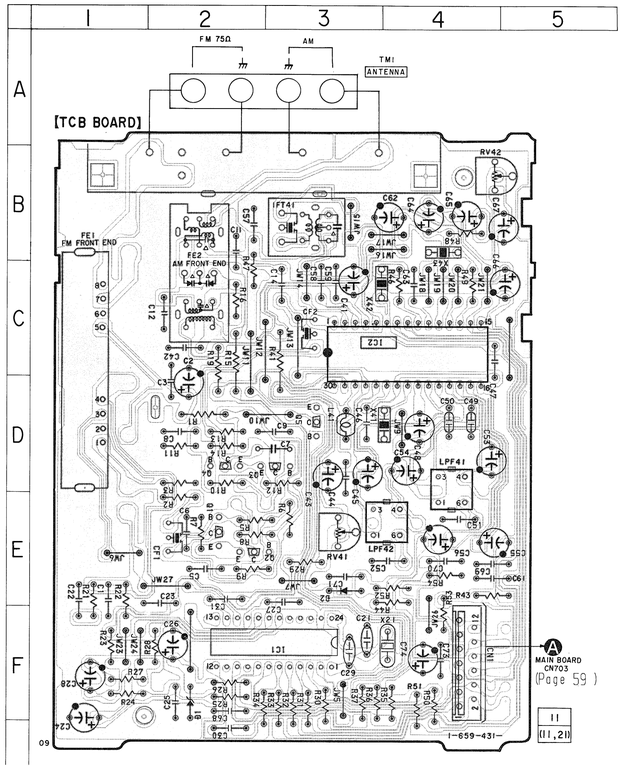
• Semiconductor Location

Ref. No.	Location
D1	F-2
D2	E-3
IC1	F-3
IC2	C-3
Q1	E-2
Q2	E-2
Q3	D-2
Q4	D-2
Q5	D-3

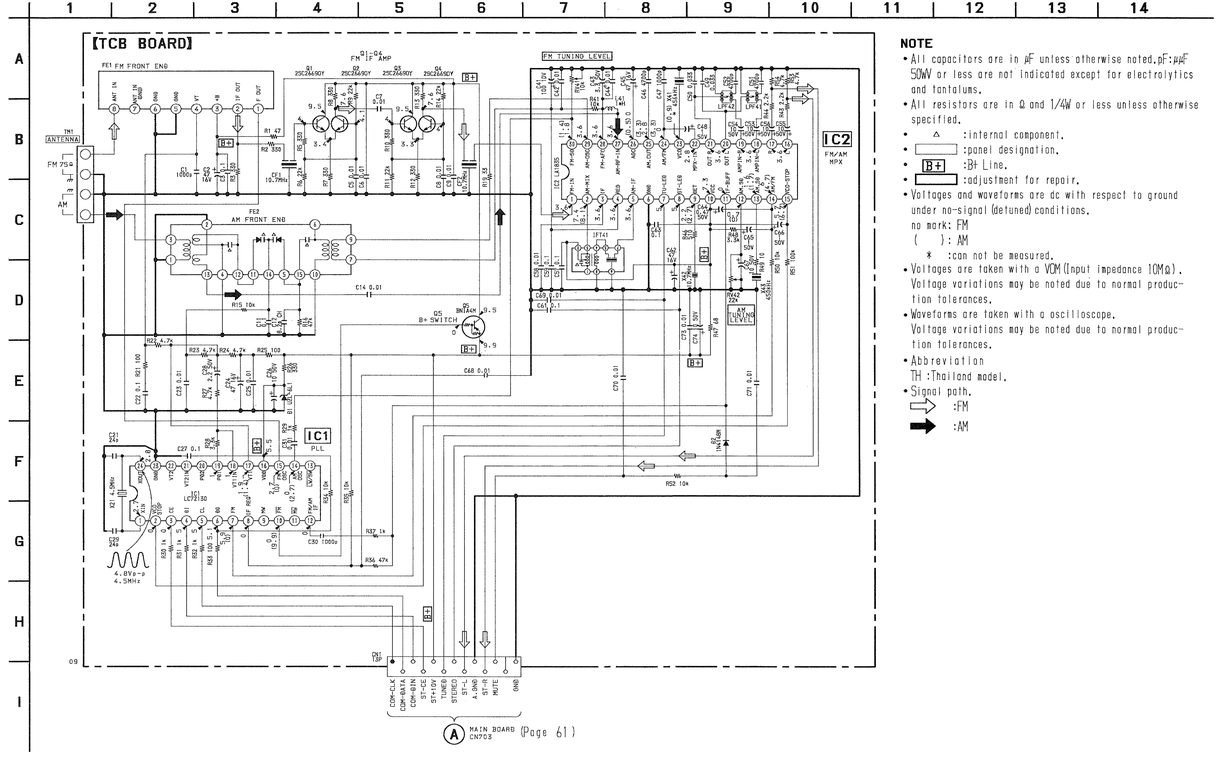
Note:
- ○—— : parts extracted from the component side.
- △ : internal component.
- ▭ : Pattern from the side which enable seeing.
- Abbreviation
  TH : Thailand model.

6-10. PRINTED WIRING BOARD — TUNER SECTION — (TH MODEL)

• See page 19 for Circuit Boards Location.



6-11. SCHEMATIC DIAGRAM — TUNER SECTION — (TH MODEL)



NOTE

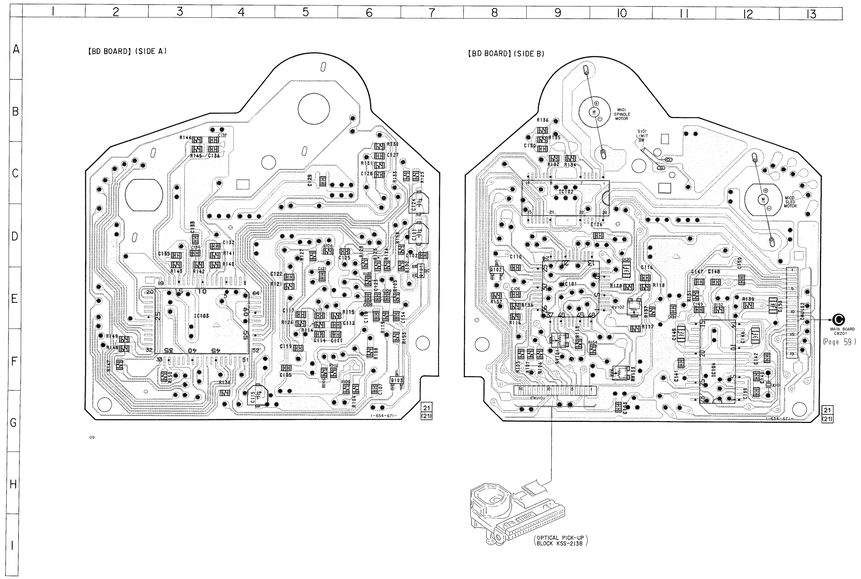
- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
  ( ): AM
  * : can not be measured.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  TH : Thailand model.
- Signal path.
  ⇨ : FM
  ➡ : AM

6-12. PRINTED WIRING BOARD — CD SECTION —

• See page 19 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
IC101	E-9
IC102	C-8
IC103	E-3
IC104	F-11
Q101	D-6
Q102	D-7
Q103	F-6

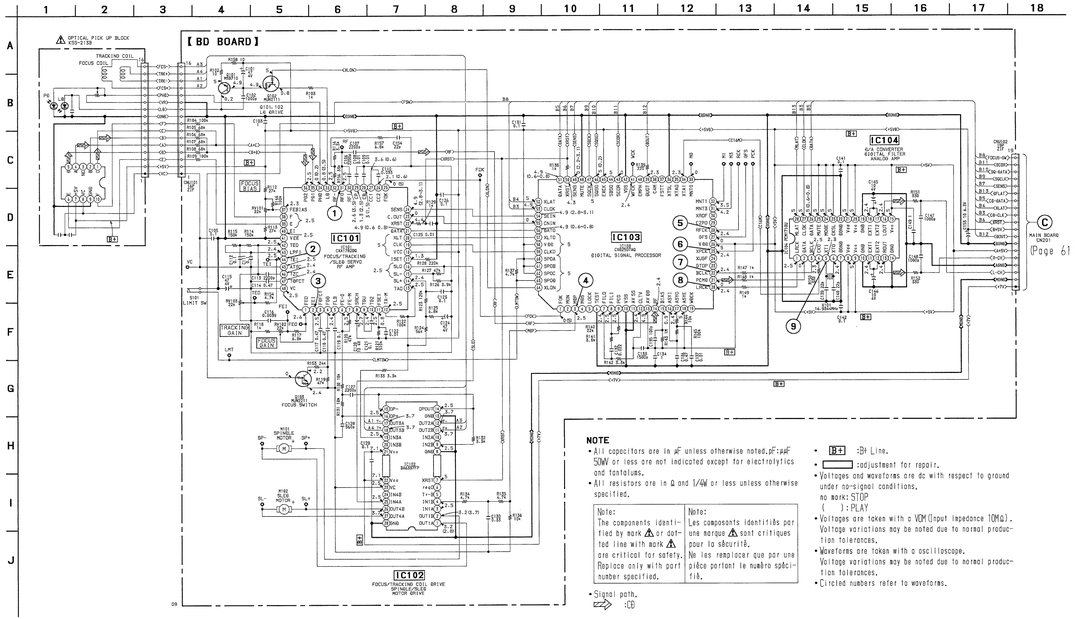


Note:

- ○—— : parts extracted from the component side.
- ● : Through hole.
- ▭ : Pattern from the side which enable seeing. (The other layer's patterns are not indicated.)

6-13. SCHEMATIC DIAGRAM — CD SECTION —

• See page 80 for IC Block Diagrams.



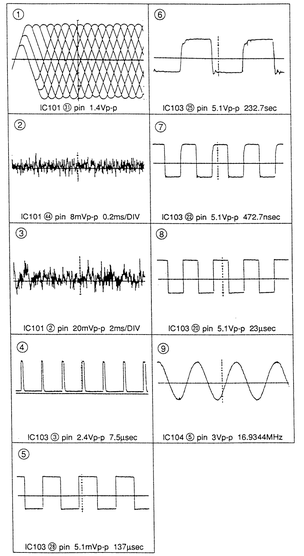
NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF. 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

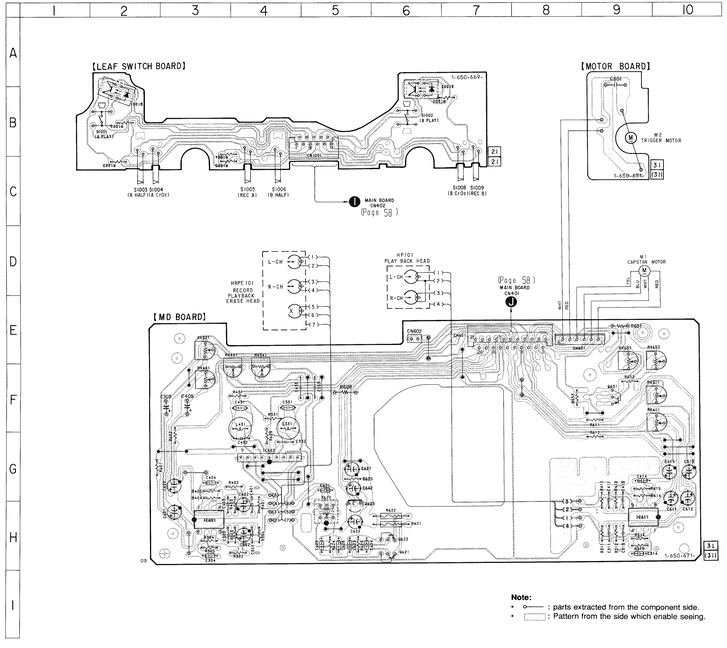
- Signal path. ⇨ :CD
- B+ :B+ Line.
- ▭ :adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions. no mark: STOP ( ): PLAY
- Voltages are taken with a VOM (input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

• **Waveforms**


① IC101 ⑮ pin 1.4Vp-p
② IC101 ㊻ pin 8mVp-p 0.2ms/DIV
③ IC101 ㊼ pin 20mVp-p 2ms/DIV
④ IC103 ③ pin 2.4Vp-p 7.5μsec
⑤ IC103 ㊽ pin 5.1mVp-p 137μsec
⑥ IC103 ㊸ pin 5.1Vp-p 232.7sec
⑦ IC103 ㊹ pin 5.1Vp-p 472.7nsec
⑧ IC103 ㊾ pin 5.1Vp-p 23μsec
⑨ IC104 ㉔ pin 3Vp-p 16.9344MHz

6-14. PRINTED WIRING BOARD — MD SECTION —

• See page 19 for Circuit Boards Location.



Note:
- ○—— : parts extracted from the component side.
- ▭ : Pattern from the side which enable seeing.

• Semiconductor Location

Ref. No.	Location
IC601	H-3
IC602	G-4
IC611	H-9
Q621	I-6
Q622	H-6
Q623	H-5
Q651	F-9
Q1001	B-2
Q1002	B-6

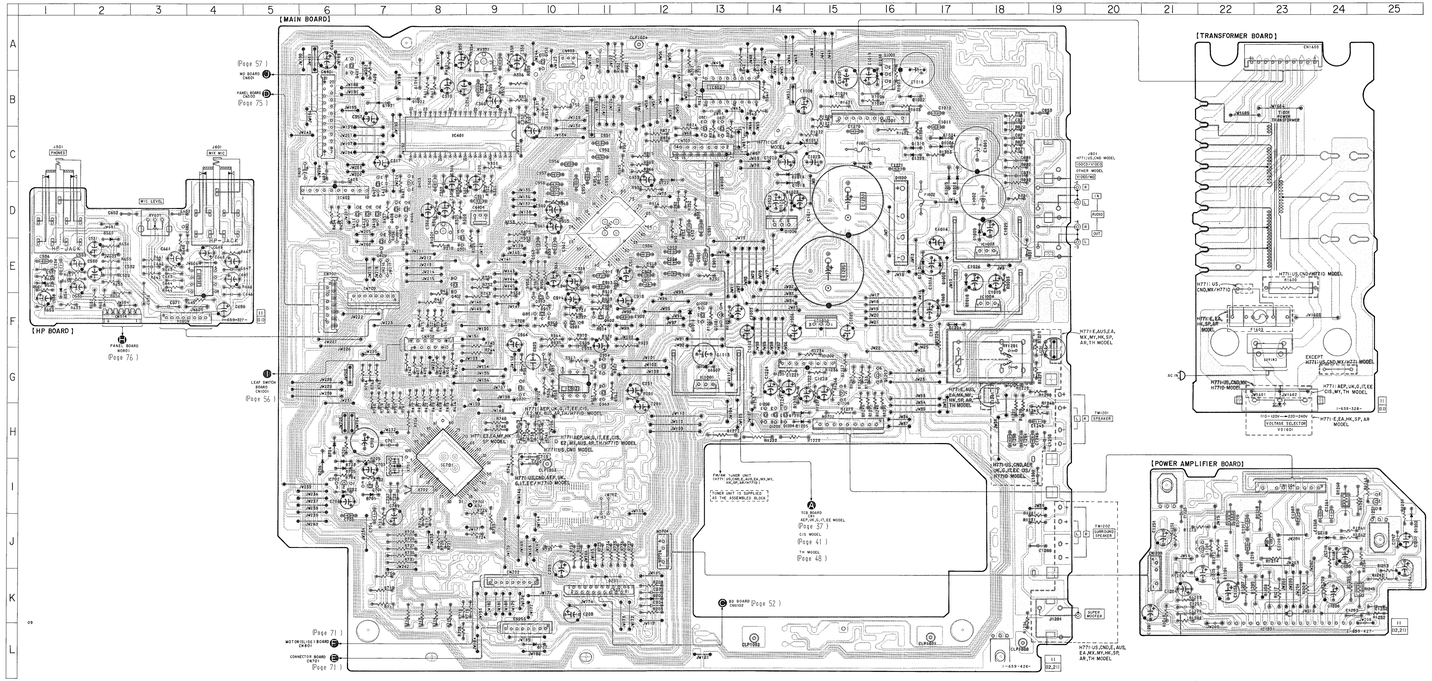
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D201	K-11	IC402	D-6
D202	K-12	IC601	E-4
D560	D-2	IC701	I-8
D561	E-1	IC702	I-6
D562	E-1	IC802	B-13
D401	E-7	IC901	D-11
D701	I-7	IC902	G-10
D702	I-6	IC1001	G-13
D703	I-6	IC1002	F-15
D704	H-6	IC1003	E-18
D705	I-6	IC1004	F-18
D706	I-6	IC1201	K-23
D707	L-10	IC1202	G-15
D708	F-9		
D721	F-10	Q301	E-8
D722	C-12	Q351	A-10
D1001	B-15	Q401	B-7
D1002	B-16	Q402	E-8
D1003	D-17	Q403	C-8
D1004	C-17	Q406	D-7
D1005	D-17	Q407	D-7
D1006	C-17	Q408	D-7
D1007	C-13	Q409	E-7
D1008	A-16	Q410	D-7
D1009	D-17	Q411	D-6
D1010	F-17	Q412	D-7
D1011	C-15	Q701	I-7
D1013	G-14	Q820	G-9
D1014	C-14	Q821	B-13
D1016	B-8	Q823	H-10
D1017	E-16	Q871	B-13
D1018	F-12	Q901	F-10
D1021	B-7	Q902	F-11
D1022	B-8	Q951	F-10
D1023	D-14	Q952	F-10
D1059	F-17	Q953	G-11
D1069	F-17	Q954	G-11
D1201	K-22	Q1001	F-13
D1202	J-25	Q1002	F-13
D1204	F-12	Q1003	A-16
D1205	H-14	Q1006	D-14
D1230	H-14	Q1201	J-22
D1250	C-16	Q1204	H-14
D1251	J-24	Q1205	H-14
D1309	C-16	Q1206	G-14
D1310	C-16	Q1207	G-16
		Q1208	G-15
IC401	C-8	Q1251	I-25

Note:
- ○—— : parts extracted from the component side.
- △ : internal component.
- ▭ : Pattern from the side which enable seeing.
- Abbreviation
  - CND : Canadian model.
  - G : German model.
  - IT : Italian model.
  - EE : East European model.
  - EA : Saudi Arabia model.
  - MX : Mexican model.
  - HK : Hong Kong model.
  - SP : Singapore model.
  - MY : Malaysia model.
  - AUS : Australian model.
  - AR : Argentine model.
  - TH : Thailand model.

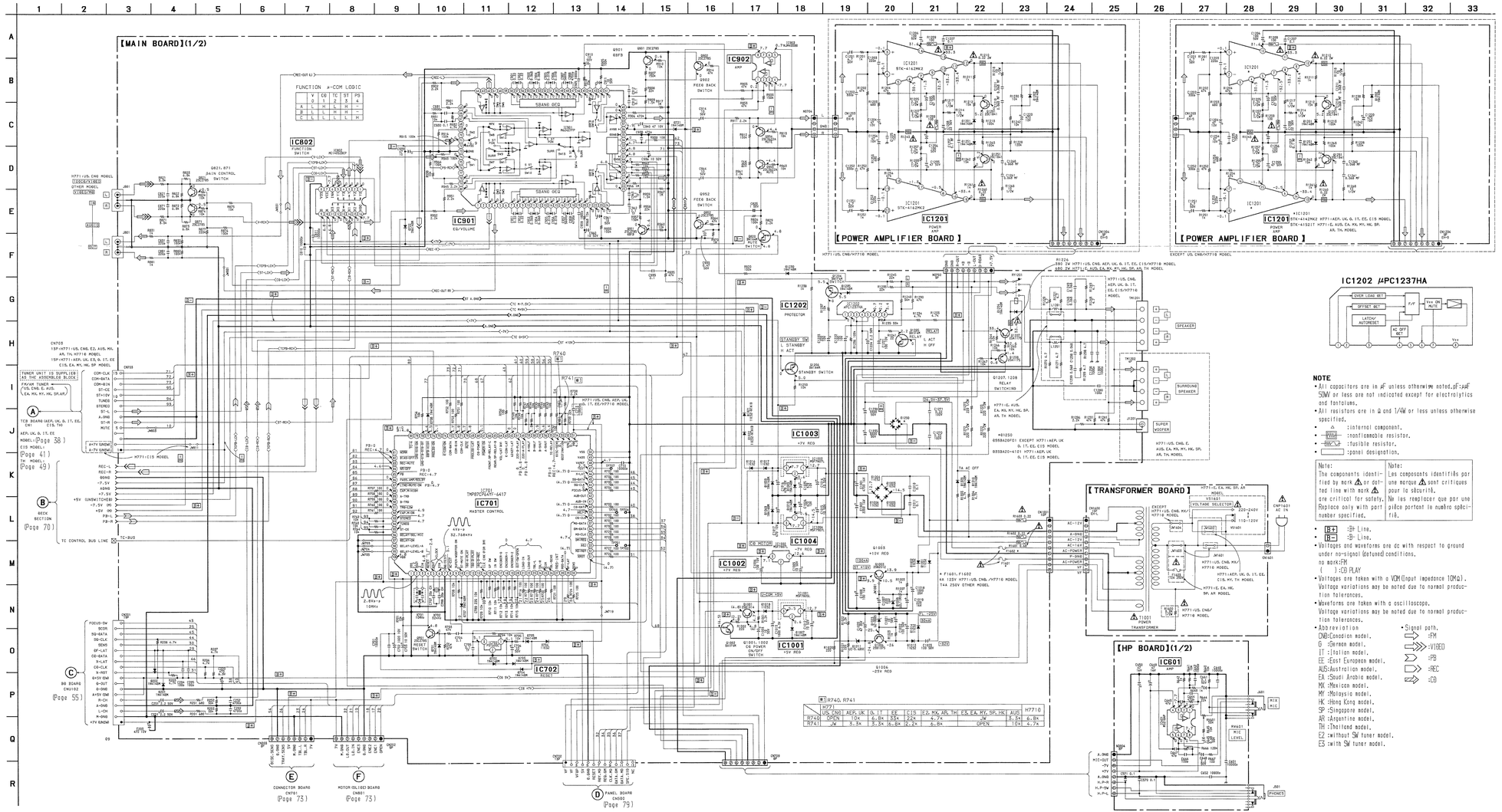
6-15. PRINTED WIRING BOARD — MAIN SECTION —

• See page 19 for Circuit Boards Location.



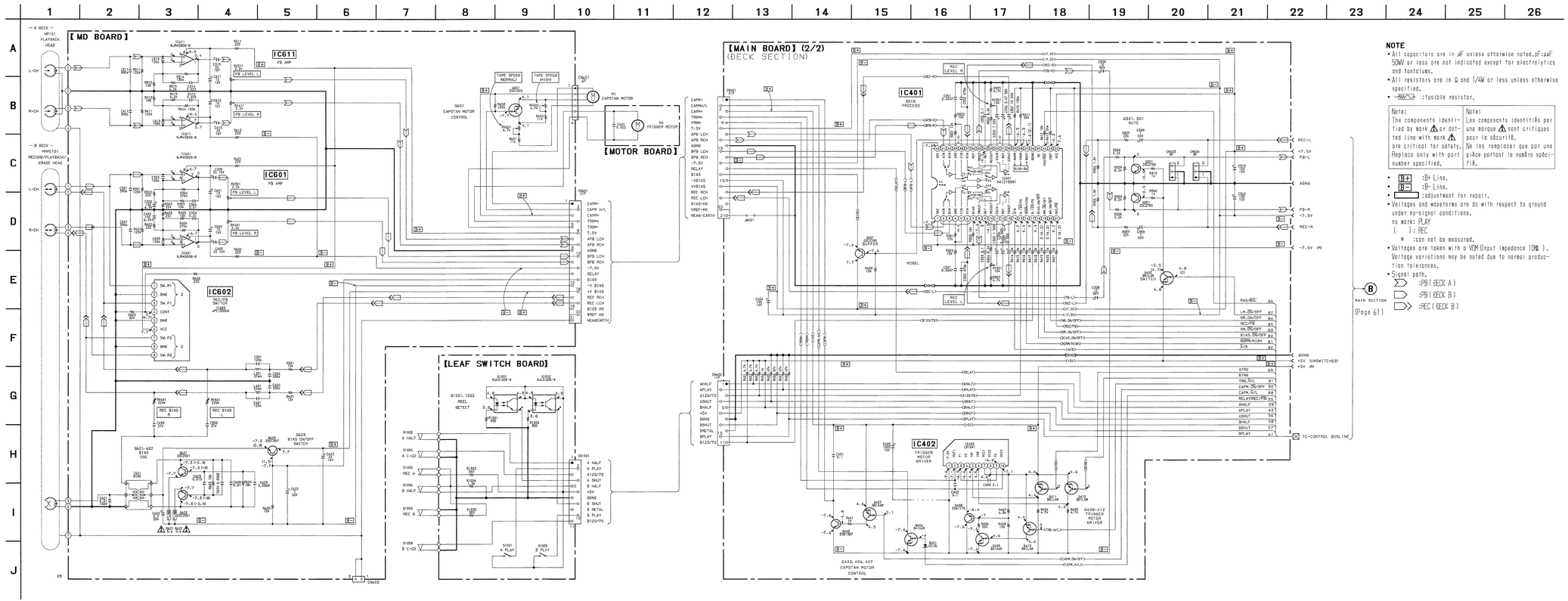
6-16. SCHEMATIC DIAGRAM — MAIN SECTION —

• See page 21 for IC Pin Function. (IC701)



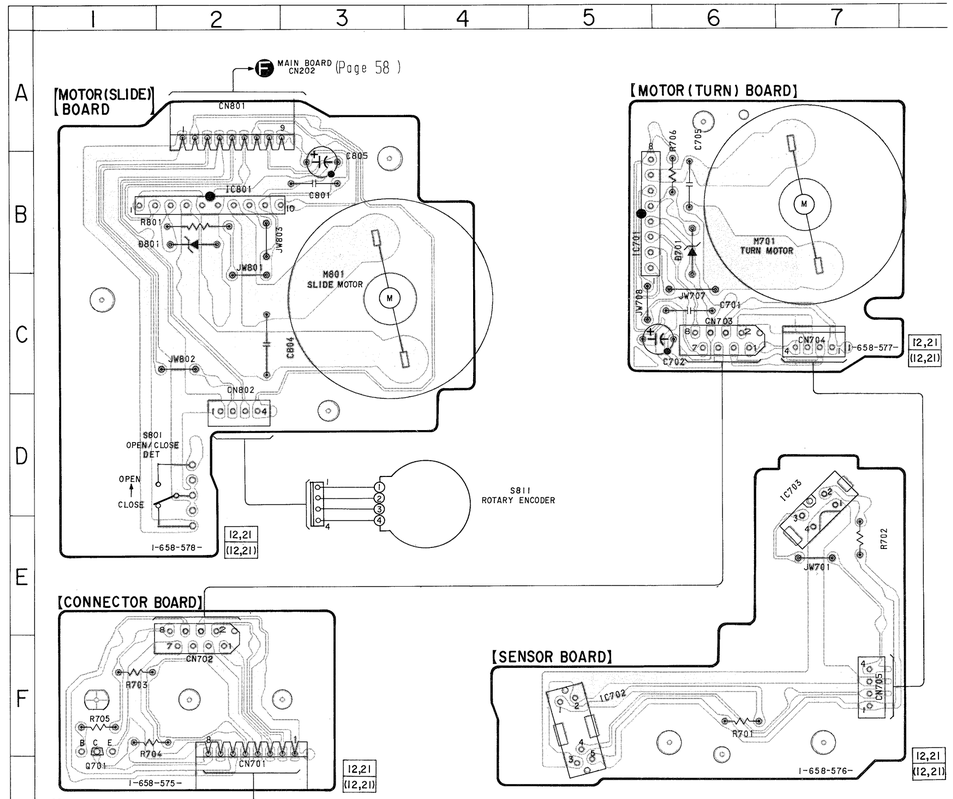
6-17. SCHEMATIC DIAGRAM — DECK SECTION —

- See page 56 for Printed Wiring Board. (MD BOARD)
- See page 58 for Printed Wiring Board. (MAIN BOARD)
- See page 65 for IC Block Diagrams.



6-18. PRINTED WIRING BOARD — CD MOTOR SECTION —

• See page 19 for Circuit Boards Location.

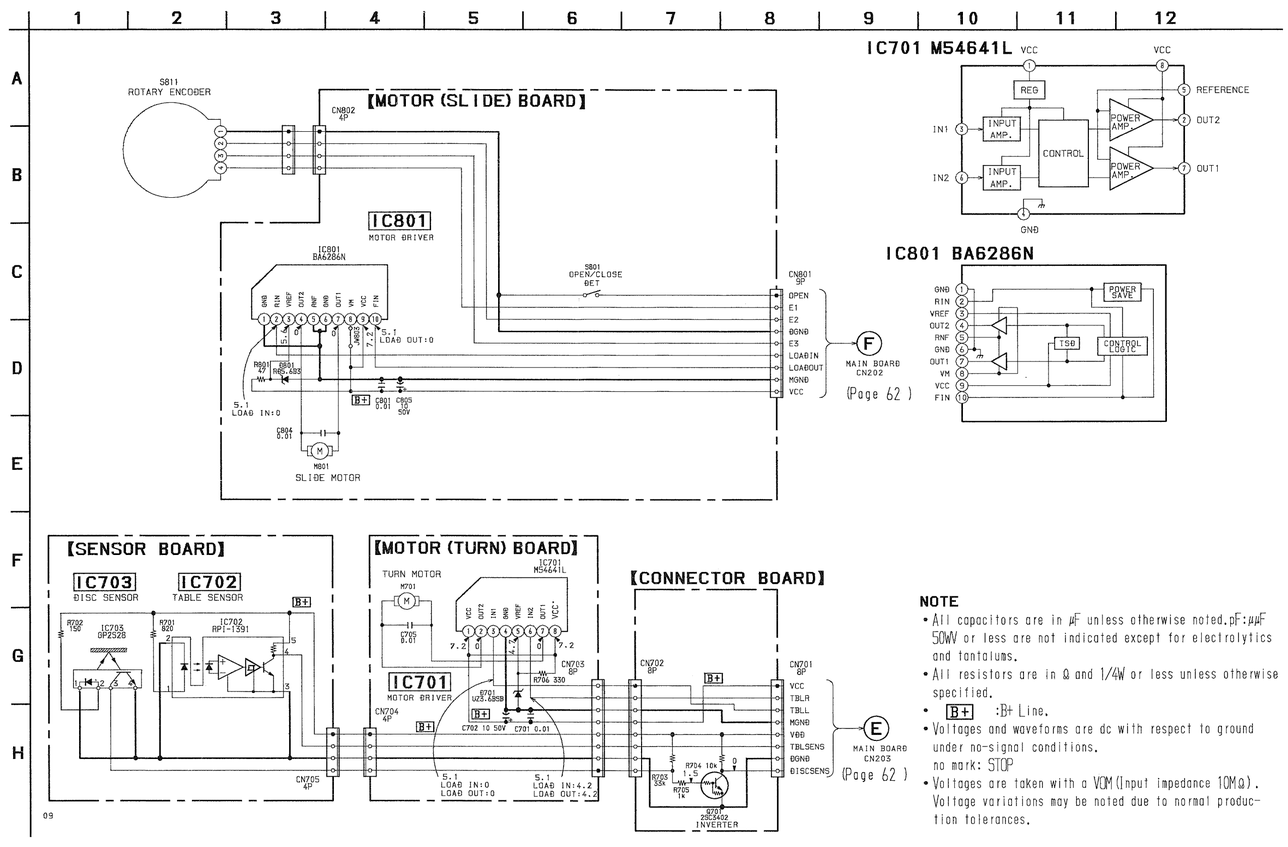


• **Semiconductor Location**

Ref. No.	Location
D701	B-6
D801	B-2
IC701	B-5
IC702	F-5
IC703	D-7
IC801	B-2
Q701	F-1

Note:
- ○—— : parts extracted from the component side.
- ▭ : Pattern from the side which enable seeing.

6-19. SCHEMATIC DIAGRAM — CD MOTOR SECTION —



NOTE
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- B+ :B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions. no mark: STOP
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

6-20. PRINTED WIRING BOARD — PANEL SECTION —

• See page 19 for Circuit Boards Location.

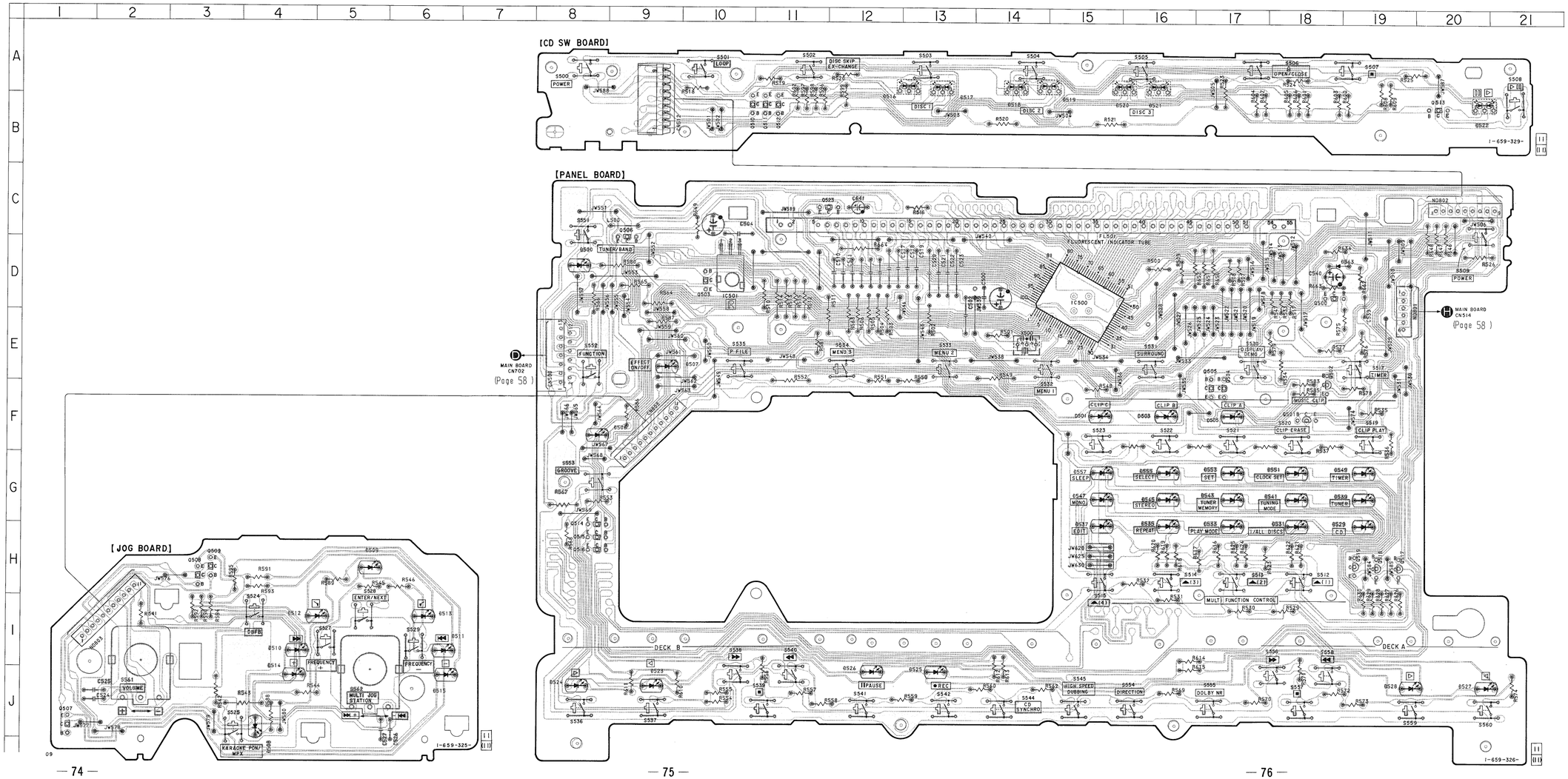
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D500	D-8	D543	G-17
D501	F-15	D545	G-16
D503	F-16	D547	G-15
D505	F-17	D549	G-18
D506	F-9	D551	G-18
D507	E-10	D553	G-17
D508	K-4	D555	G-16
D509	H-5	D557	G-15
D510	I-4		
D511	I-6	IC500	D-15
D512	I-4	IC501	D-10
D513	I-16		
D514	I-4	Q500	D-18
D515	J-6	Q501	F-18
D516	B-12	Q502	E-18
D517	B-13	Q503	D-10
D518	B-14	Q504	E-17
D519	B-15	Q505	E-17
D520	B-15	Q506	C-9
D521	B-16	Q507	J-1
D522	B-20	Q508	H-3
D523	J-9	Q509	H-3
D524	J-8	Q510	B-10
D525	I-13	Q511	B-11
D526	I-12	Q512	B-11
D527	J-20	Q513	B-20
D528	J-19	Q514	G-8
D529	G-18	Q515	H-8
D531	G-18	Q516	H-8
D533	G-17	Q517	H-19
D535	G-16	Q518	H-19
D537	G-15	Q519	H-19
D539	G-18	Q523	C-11
D541	G-18		

Note:

• ⟷ : parts extracted from the component side.

• ▭ : Pattern from the side which enable seeing.



6-21. SCHEMATIC DIAGRAM — PANEL SECTION —

• See page 20 for IC Pin Function. (IC500)

【PANEL BOARD】

【JOG BOARD】

【CD SW BOARD】

【HP BOARD】(2/2)

IC500 A5D6204-012-5BA GRAPHIC CONTROL

IC501 REMOTE CONTROL RECEIVER

FL501 FLUORESCENT INDICATOR TUBE

Q507-509 LED DRIVE

Q510-513 LED DRIVE

Q514-516 LED DRIVE

Q503-506 LED DRIVE

Q500-502 B+ SWITCH

Q517-519 LED DRIVE

Q523 GRID DRIVE

MULTI JOG STATION

VOLUME

OPEN/CLOSE

DISC 3 DISC 2 DISC 1 DISC SKIP EX-CHANGE

LOOP POWER

MULTI FUNCTION CONTROL TIMER

CD MUSIC CLIP

CLIP C CLIP B CLIP A CLIP ERASE CLIP PLAY DISPLAY /DEMO SURROUND

HIGH SPEED DUBBING CD SYNCHRO REC PAUSE EFFECT ON/OFF P.FILE MENU 3 MENU 2 MENU 1

DECK B

DECK A

BOLBY NR DIRECTION GROOVE FUNCTION TUNER/BAND

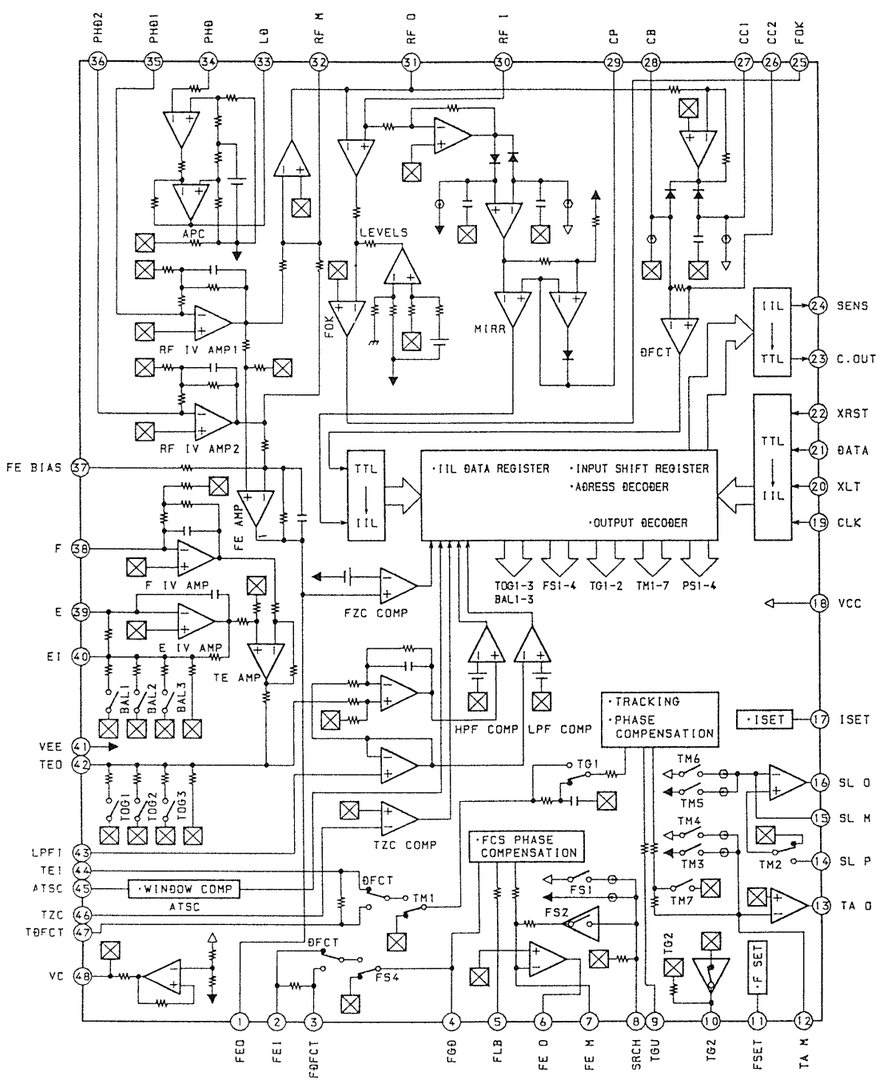
SLEEP SELECT SET CLOCK SET TIMER MONO STEREO TUNER MEMORY TUNING MODE TUNER EDIT REPEAT PLAY MODE (FALL BITREP) CD

NOTE

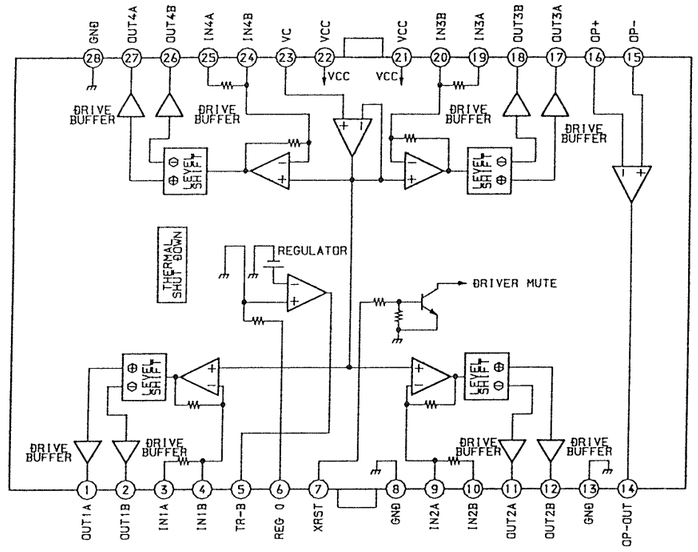
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantaiums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ :internal component.
- ▭ :panel designation.
- B+ :B+ Line.
- B− :B− Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions. no mark:FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.

6-22. IC BLOCK DIAGRAMS — CD SECTION —

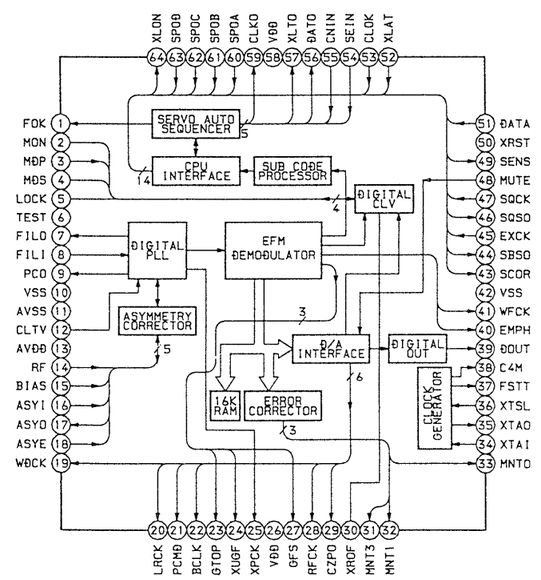
IC101 CXA1782BQ



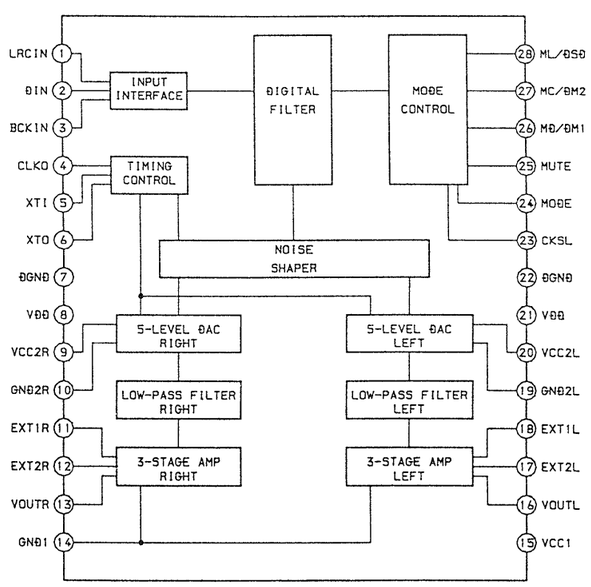
IC102 BA6397FP



IC103 CXD2507



IC104 PCM1710U



SECTION 7
EXPLODED VIEWS

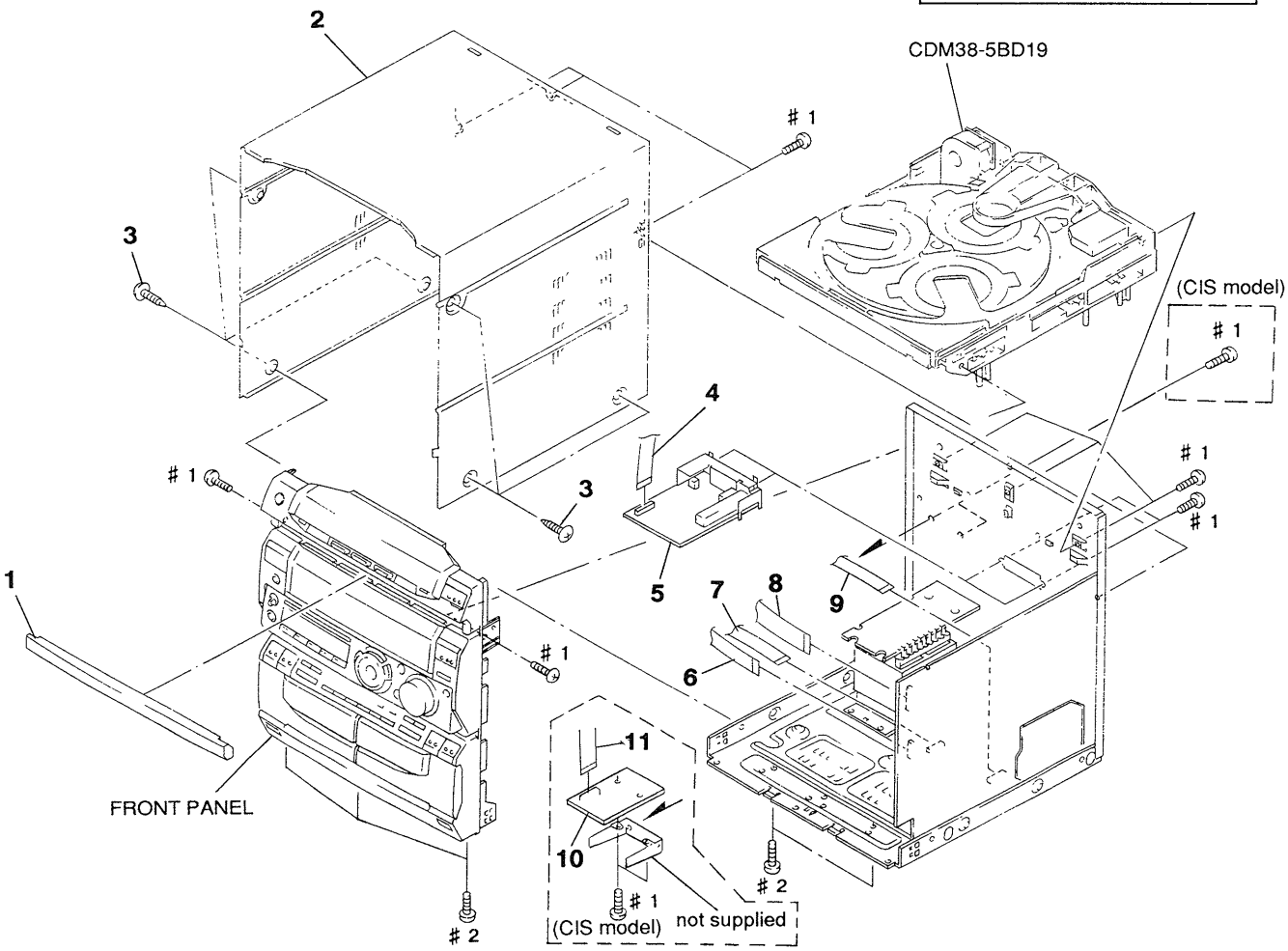
NOTE:
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

- Abbreviation
  - CND : Canadian model
  - G : German model
  - IT : Italian model
  - EE : East European model
  - EA : Saudi Arabia model
  - MX : Mexican model
  - HK : Hong Kong model
  - SP : Singapore model
  - MY : Malaysia model
  - AUS : Australian model
  - AR : Argentine model
  - TH : Thailand model
  - E2 : Without SW tuner model
  - E3 : With SW tuner model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

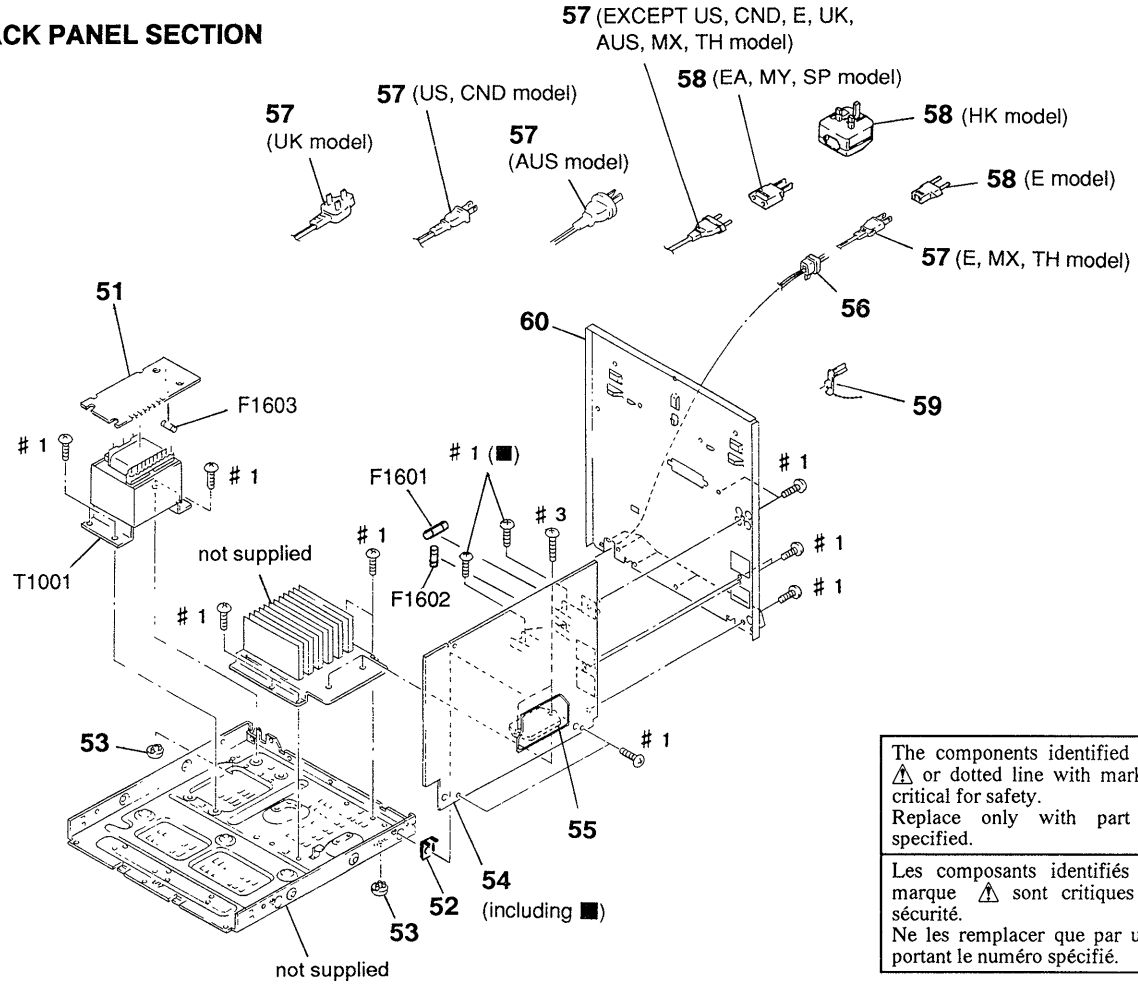
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

7-1. CASE SECTION



Ref. No.	Part No.	Description	Remark
1	4-978-714-41	PANEL, LOADING (H771:US, CND, AEP, UK, G, IT, EE, CIS)	
* 1	4-978-714-51	PANEL, LOADING (H771:E, AUS, EA, MX, MY, HK, SP, AR, TH)	
1	4-978-714-91	PANEL, LOADING (H771D)	
* 2	4-978-748-41	CASE	
3	3-363-099-01	SCREW (CASE 3 TP2)	
4	1-769-978-11	WIRE (FLAT TYPE) (13 CORE) (H771:US, CND, E2, AUS, MX, AR, TH/H771D)	
4	1-773-010-11	WIRE (FLAT TYPE) (15 CORE) (H771:AEP, UK, E3, G, IT, EE, CIS, EA, MY, HK, SP)	
* 5	1-233-544-11	ENCAPSLATED COMPONENT, FM/AM TUNER (H771:US, CND/H771D)	
* 5	1-233-545-11	ENCAPSLATED COMPONENT, FM/AM TUNER (H771:E2, AUS, AR, MX)	
* 5	1-233-546-11	ENCAPSLATED COMPONENT, FM/AM TUNER (H771:E3, EA, MY, SP, HK)	
* 5	A-4303-514-A	TCB BOARD, COMPLETE (H771:AEP, UK)	
* 5	A-4303-515-A	TCB BOARD, COMPLETE (H771:IT, G)	
* 5	A-4303-516-A	TCB BOARD, COMPLETE (H771:EE)	
* 5	A-4303-517-A	TCB BOARD, COMPLETE (H771:CIS)	
* 5	A-4303-537-A	TCB BOARD, COMPLETE (H771:TH)	
6	1-769-978-11	WIRE (FLAT TYPE) (13 CORE)	
7	1-769-946-11	WIRE (FLAT TYPE) (11 CORE)	
8	1-773-157-11	WIRE (FLAT TYPE) (21 CORE)	
9	1-776-166-11	WIRE (FLAT TYPE) (19 CORE)	
* 10	A-4377-454-A	POLAR BOARD, COMPLETE (H771:CIS)	
11	1-769-979-11	WIRE (FLAT TYPE) (13 CORE) (CIS)	

7-2. BACK PANEL SECTION



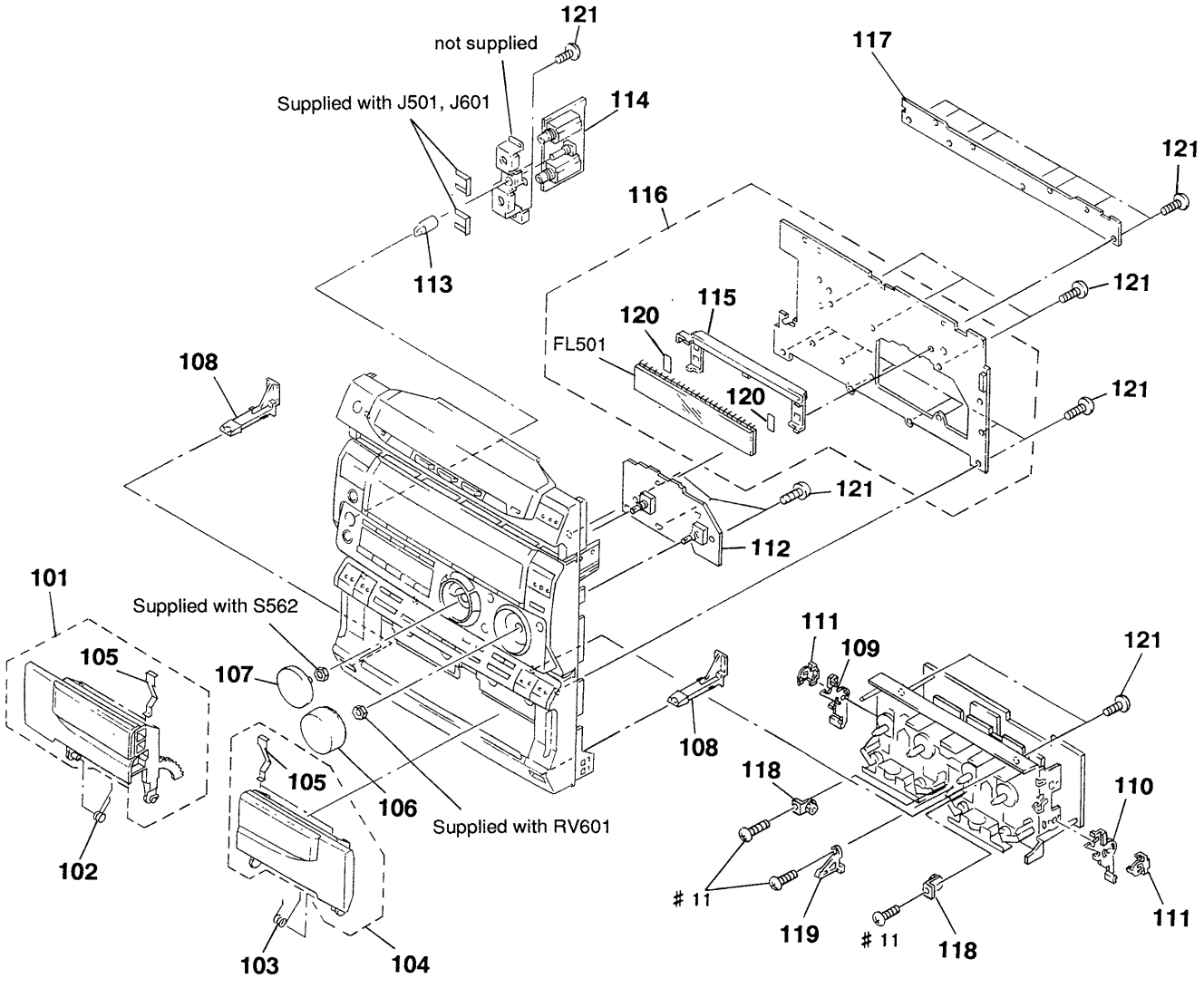
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
* 51	1-659-328-11	TRANSFORMER BOARD	
52	1-537-770-21	TERMINAL BOARD, GROUND	
53	4-965-822-01	FOOT	
* 54	A-4389-173-A	MAIN BOARD, COMPLETE (H771:AEP, UK)	
* 54	A-4389-175-A	MAIN BOARD, COMPLETE (H771:G, IT)	
* 54	A-4389-176-A	MAIN BOARD, COMPLETE (H771:EE)	
* 54	A-4389-177-A	MAIN BOARD, COMPLETE (H771:CIS)	
* 54	A-4389-178-A	MAIN BOARD, COMPLETE (H771:E2, MX, AR)	
* 54	A-4389-180-A	MAIN BOARD, COMPLETE(H771:E3, EA, MY, HK, SP)	
* 54	A-4389-775-A	MAIN BOARD, COMPLETE (H771:TH)	
* 54	A-4389-929-A	MAIN BOARD, COMPLETE (H771:US, CND)	
* 54	A-4389-933-A	MAIN BOARD, COMPLETE (H771D)	
* 54	A-4390-653-A	MAIN BOARD, COMPLETE (H771:AUS)	
* 55	A-4389-174-A	POWER AMPLIFIER BOARD, COMPLETE (H771:AEP, UK, G, IT, EE)	
* 55	A-4389-179-A	POWER AMPLIFIER BOARD, COMPLETE (H771:E, AUS, EA, MX, MY, HK, SP, AR)	
* 55	A-4389-415-A	POWER AMPLIFIER BOARD, COMPLETE(H771:CIS)	
* 55	A-4389-782-A	POWER AMPLIFIER BOARD, COMPLETE(H771:TH)	
* 55	A-4389-932-A	POWER AMPLIFIER BOARD, COMPLETE (H771:US, CND/H771D)	
* 56	3-703-244-00	BUSHING (2104), CORD(EXCEPT H771:E, MX, TH)	
56	3-703-571-11	BUSHING (S)(4516), CORD (H771:E, MX, TH)	
⚠57	1-575-651-11	CORD, POWER (EXCEPT H771:US, CND, UK, E, AUS, MX, TH/H771D)	
⚠57	1-575-653-11	CORD, POWER (H771:E, MX)	
⚠57	1-690-608-11	CORD, POWER (H771:AUS)	
⚠57	1-690-609-21	CORD, POWER (H771:US, CND/H771D)	
⚠57	1-751-326-31	CORD, POWER (H771:TH)	
⚠57	1-751-520-21	CORD, POWER (H771:UK)	
⚠58	1-569-007-11	ADAPTER, CONVERSION 2P (H771:E3)	
⚠58	1-569-008-21	ADAPTER, CONVERSION 2P (H771:EA, MY, SP)	
⚠58	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (H771:HK)	
59	4-956-370-12	BAND, PLUG FIXED (H771:UK, AUS, HK)	

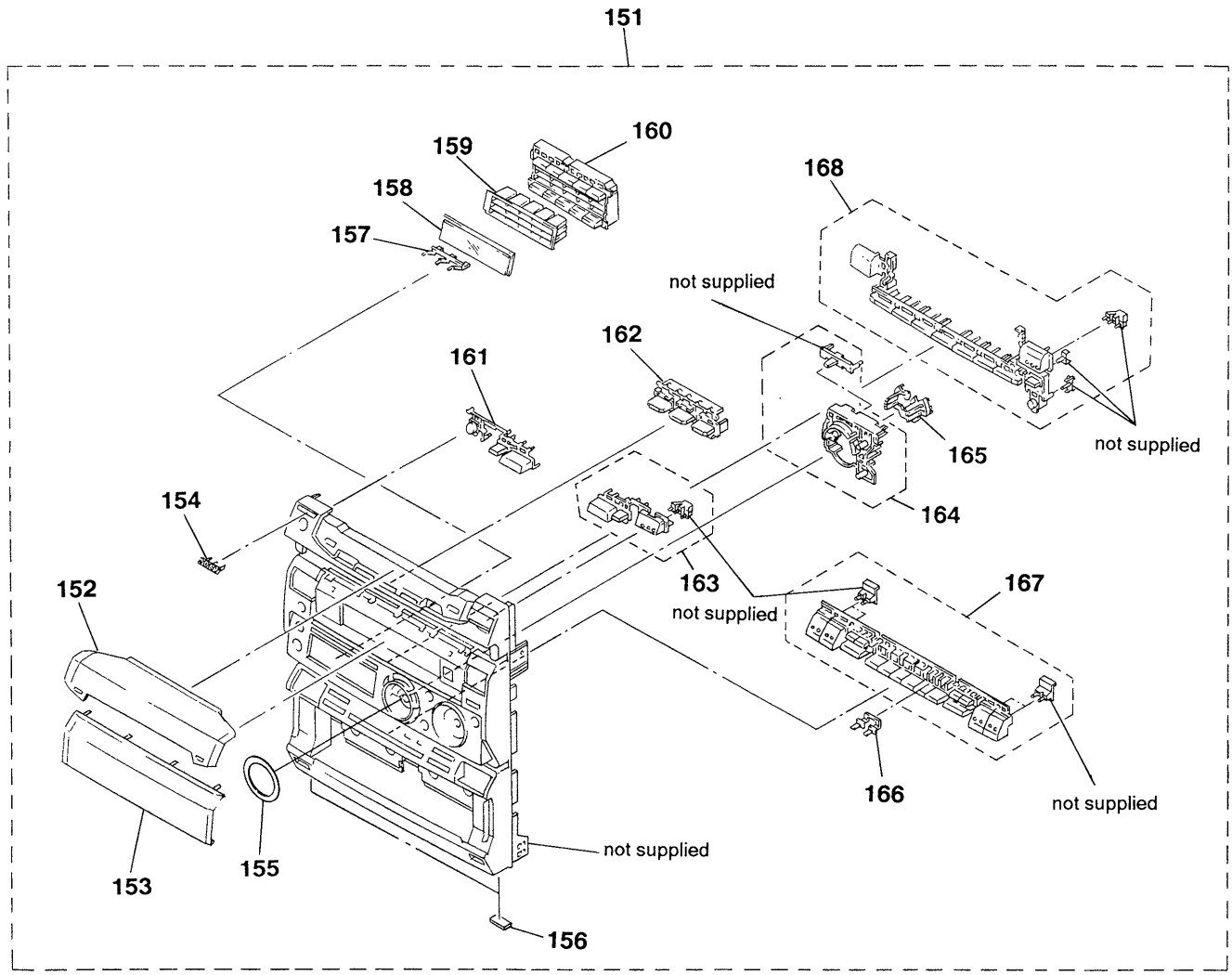
Ref. No.	Part No.	Description	Remark
* 60	4-978-817-01	PANEL, BACK (H771:AEP)	
* 60	4-978-817-11	PANEL, BACK (H771:UK)	
* 60	4-978-817-21	PANEL, BACK (H771:G)	
* 60	4-978-817-31	PANEL, BACK (H771:IT)	
* 60	4-978-817-41	PANEL, BACK (H771:EE)	
* 60	4-978-817-51	PANEL, BACK (H771:CIS)	
* 60	4-978-817-71	PANEL, BACK (H771:US)	
* 60	4-978-817-81	PANEL, BACK (H771:CND)	
* 60	4-978-817-91	PANEL, BACK (H771D:US)	
* 60	4-979-275-01	PANEL, BACK (H771:E)	
* 60	4-979-275-11	PANEL, BACK (H771:EA)	
* 60	4-979-275-21	PANEL, BACK (H771:AUS)	
* 60	4-979-275-31	PANEL, BACK (H771:MX)	
* 60	4-979-275-41	PANEL, BACK (H771:MY)	
* 60	4-979-275-51	PANEL, BACK (H771:SP)	
* 60	4-979-275-61	PANEL, BACK (H771:AR)	
* 60	4-979-275-71	PANEL, BACK (H771:HK)	
* 60	4-979-275-81	PANEL, BACK (H771:TH)	
* 60	4-982-549-01	PANEL, BACK (H771D:CND)	
⚠F1601	1-532-350-00	FUSE, TIME LAG (T4A, 250V) (EXCEPT H771:US, CND/H771D)	
⚠F1601	1-576-108-11	FUSE (H771:US, CND/H771D)	
⚠F1602	1-532-350-00	FUSE, TIME LAG (T4A, 250V) (EXCEPT H771:US, CND/H771D)	
⚠F1602	1-576-108-11	FUSE (H771:US, CND/H771D)	
⚠F1603	1-532-203-00	FUSE, TIME LAG (T2A, 250V) (H771:E, EA, SP, HK, AR)	
⚠T1001	1-429-435-11	TRANSFORMER, POWER (H771:AEP, UK, G, IT, EE, CIS)	
⚠T1001	1-429-436-11	TRANSFORMER, POWER (H771:E, AUS, EA, MX, MY, HK, SP, AR, TH)	
⚠T1001	1-429-556-11	TRANSFORMER, POWER (H771:US/H771D:US)	
⚠T1001	1-429-644-11	TRANSFORMER, POWER (H771:CND/H771D:CND)	

7-3. FRONT PANEL SECTION 1



Ref. No.	Part No.	Description	Remark
101	X-4946-727-1	HOLDER (A) ASSY, CASSETTE	
102	4-959-231-11	SPRING (L), TORSION	
103	4-959-232-11	SPRING (R), TORSION	
104	X-4946-728-1	HOLDER (B) ASSY, CASSETTE	
105	4-959-229-11	DETENT, CASSETTE	
106	4-978-733-01	KNOB, VOL	
107	4-978-732-01	KNOB, JOG	
108	4-980-219-01	BUTTON (EJECT) (E5)	
* 109	3-354-953-01	LEVER (LOCK LEVER L)	
* 110	3-354-954-01	LEVER (LOCK LEVER R)	
111	3-354-957-01	JOINT (LOCK LEVER)	
* 112	A-4389-190-A	JOG BOARD, COMPLETE (H771:US, CND, AEP, UK, G, IT, EE/H771D)	
* 112	A-4389-419-A	JOG BOARD, COMPLETE (H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)	
* 112	A-4389-773-A	JOG BOARD, COMPLETE (H771:TH)	
113	4-973-644-01	KNOB (MIC)	
* 114	A-4389-156-A	HP BOARD, COMPLETE (H771:US, CND, AEP, UK, G, IT, EE/H771D)	
* 114	A-4389-417-A	HP BOARD, COMPLETE (H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)	
* 114	A-4389-771-A	HP BOARD, COMPLETE (H771:TH)	
* 115	4-971-014-11	HOLDER, FL TUBE	
* 116	A-4389-153-A	PANEL BOARD, COMPLETE (H771:US, CND, AEP, UK, G, IT, EE/H771D)	
* 116	A-4389-154-A	PANEL BOARD, COMPLETE (H771:E3, EA, MY, HK, SP)	
* 116	A-4389-416-A	PANEL BOARD, COMPLETE (H771:E2, AUS, CIS, MX, AR)	
* 116	A-4389-770-A	PANEL BOARD, COMPLETE (H771:TH)	
* 117	A-4389-157-A	CD SW BOARD, COMPLETE (H771:US, CND, AEP, UK, G, IT, EE/H771D)	
* 117	A-4389-418-A	CD SW BOARD, COMPLETE (H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)	
* 117	A-4389-772-A	CD SW BOARD, COMPLETE (H771:TH)	
118	3-354-963-01	DAMPER	
* 119	3-908-611-01	FULCRUM, HOLDER	
* 120	4-932-810-11	CUSHION (FL)	
121	4-951-620-01	SCREW (2.6X8), +BVTP	
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	

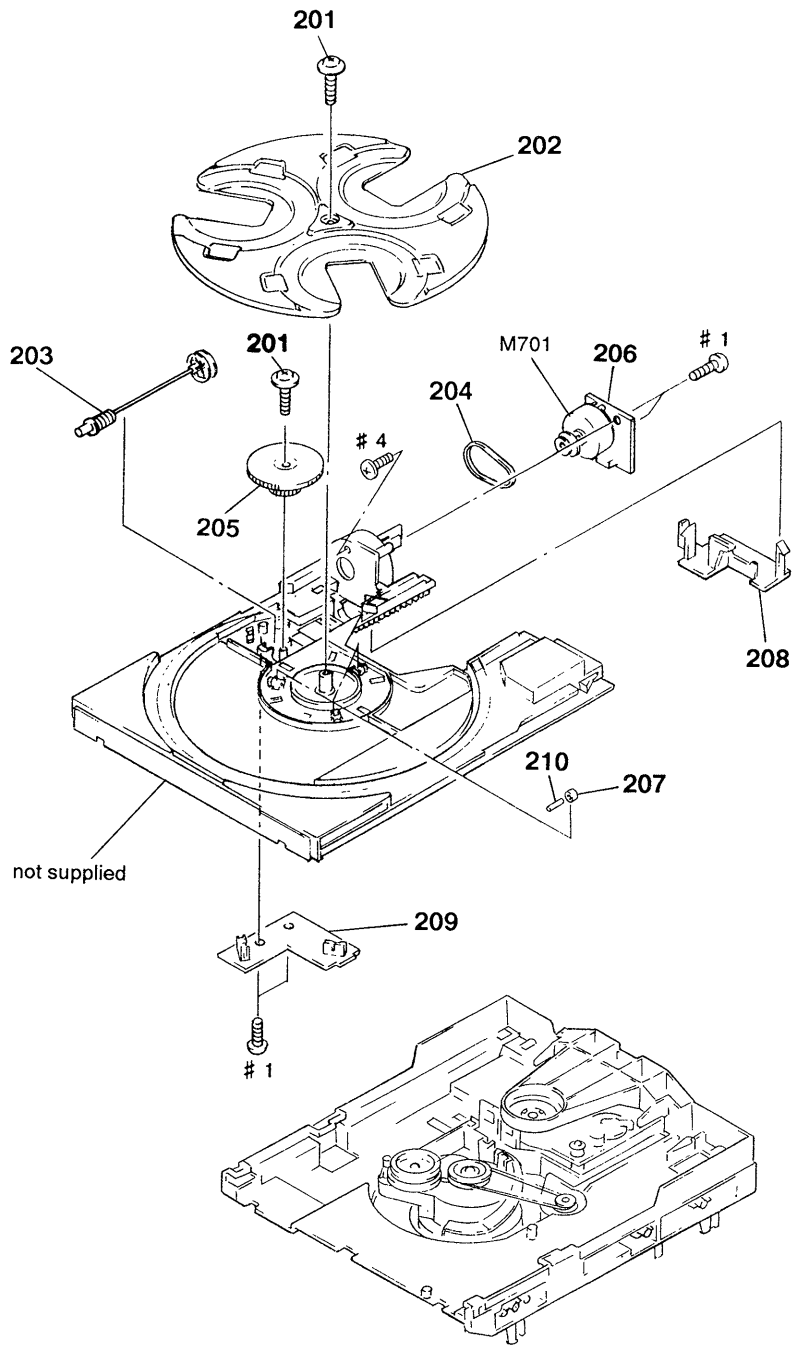
7-4. FRONT PANEL SECTION 2



Ref. No.	Part No.	Description	Remark
151	X-4946-705-1	PANEL ASSY, FRONT	
152	4-978-715-01	WINDOW, 3-CD	
153	4-978-716-01	WINDOW, FL	
154	4-962-708-11	EMBLEM (4-A), SONY	
155	4-978-745-01	PLATE, ORNAMENTAL, JOG	
156	4-930-336-61	FOOT (FELT)	
157	4-978-739-01	INDICATOR, CLIP	
158	4-978-744-11	PLATE, ORNAMENTAL, MULTI	
159	4-978-742-01	HOLDER, MULTI LED	
160	4-978-728-01	BUTTON, MULTI	

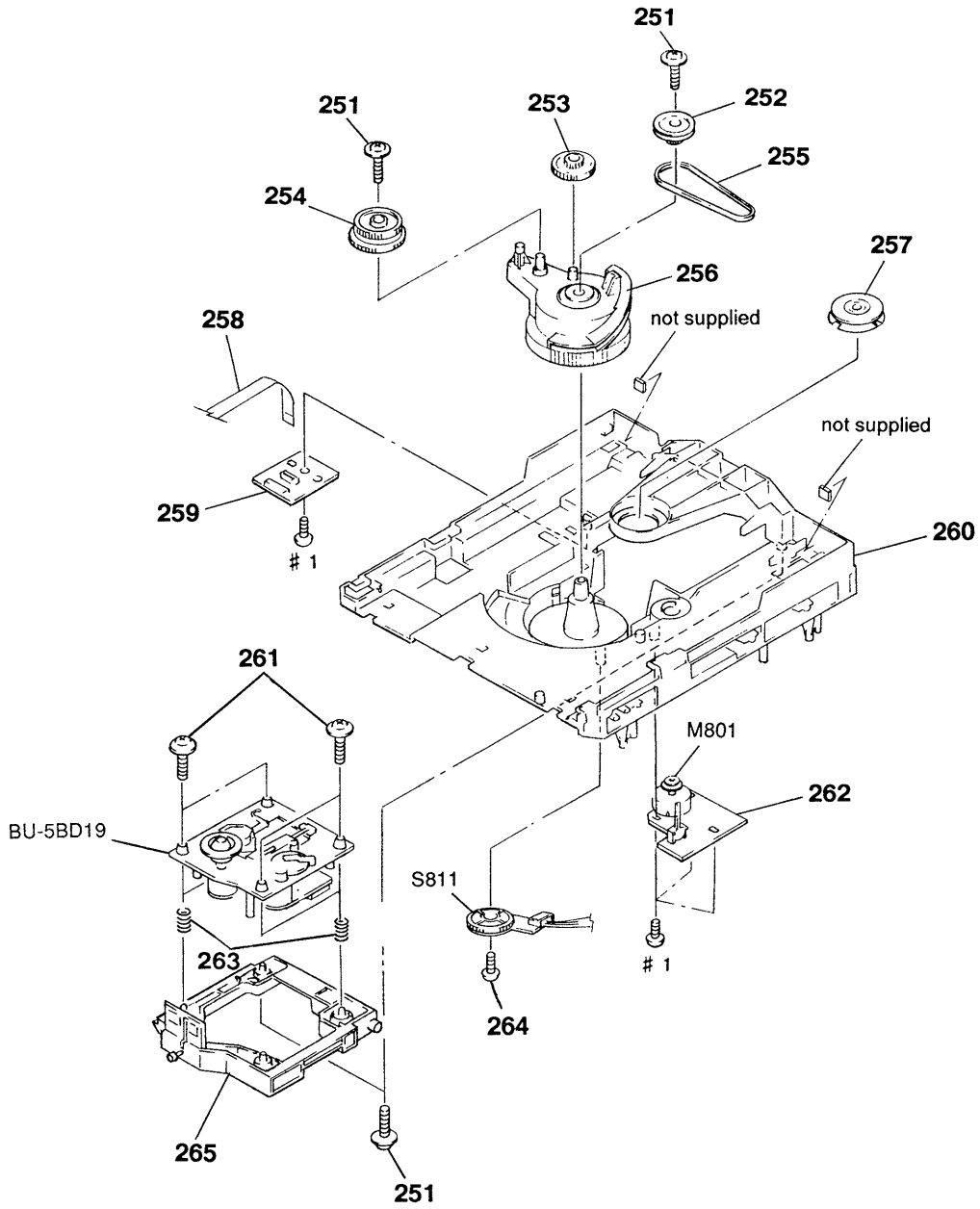
Ref. No.	Part No.	Description	Remark
161	4-978-723-01	BUTTON, POWER	
162	X-4946-703-1	BUTTON (3-CD) ASSY	
163	X-4946-698-1	BUTTON (CD-PLAY) ASSY	
164	X-4946-801-1	BUTTON (ENTER/NEXT)(E5) ASSY	
165	4-978-741-01	INDICATOR, JOG-B	
166	4-978-851-01	INDICATOR, REC	
167	X-4946-707-1	BUTTON (TC-PLAY) ASSY	
168	X-4946-706-1	BUTTON (T/B) ASSY	

7-5. CD MECHANISM SECTION 1 (CDM38-5BD19)



Ref. No.	Part No.	Description	Remark
201	4-917-583-21	BRACKET, YOKE	
202	4-977-945-01	TRAY (TURN)	
203	X-4946-665-2	SHAFT ASSY, WORM	
204	4-977-943-01	BELT (TURN) (1.2)	
205	4-977-956-01	WHEEL, WORM	
* 206	1-658-577-11	MOTOR (TURN) BOARD	
207	X-4924-457-1	ROLLER ASSY	
208	4-977-941-01	BEARING (WORM)	
* 209	1-658-576-12	SENSOR BOARD	
210	4-934-376-01	SHAFT (ROLLER)	
M701	A-4672-004-A	MOTOR ASSY (TURN)	

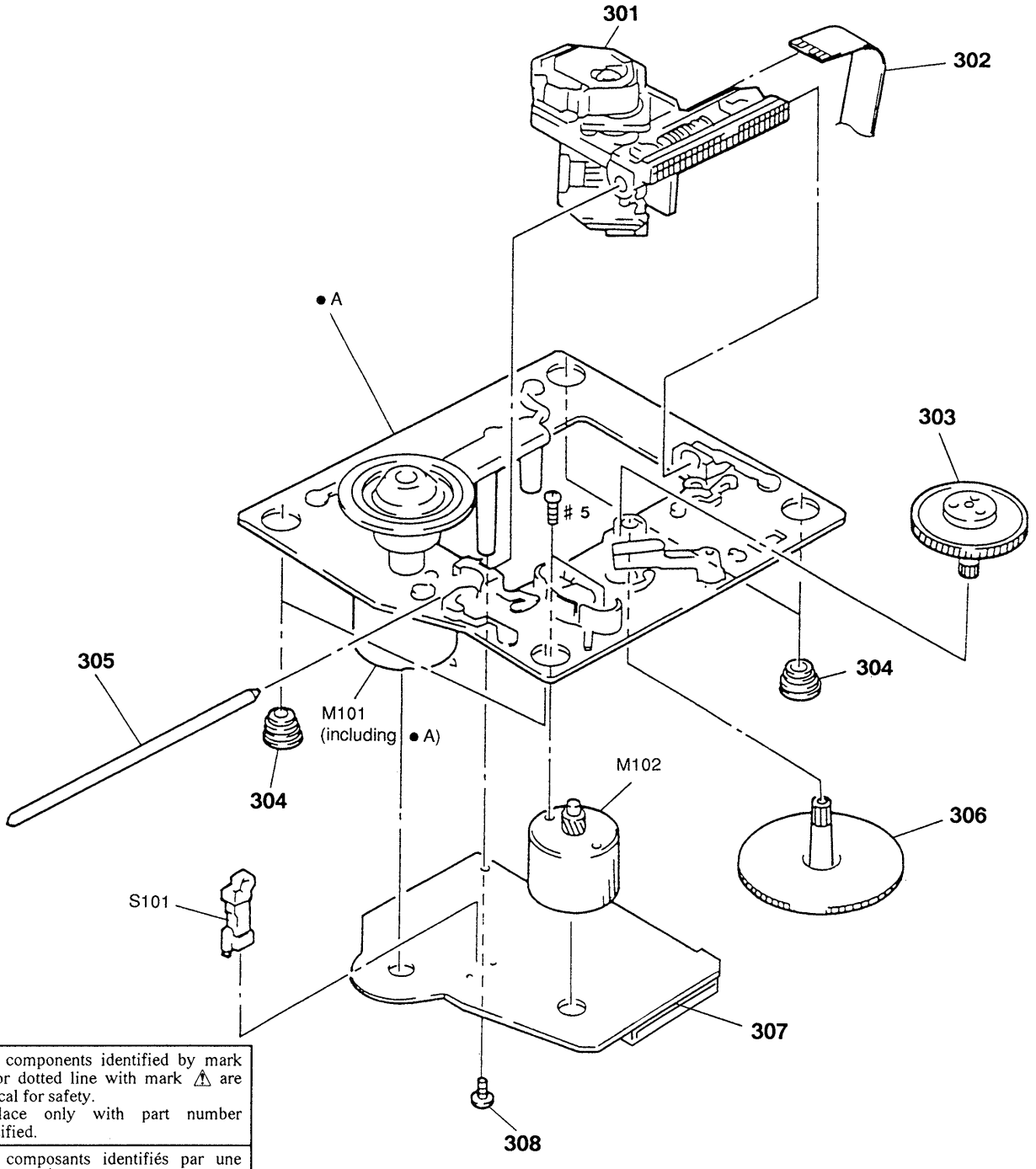
7-6. CD MECHA ISM SECTION 2 (CDM38-5E)19)



Ref. No.	Part No.	Description	Remark
251	4-917-583-21	BRACKET, YOKE	
252	4-977-954-01	PULLEY (SL)	
253	4-977-953-01	GEAR (SL-A)	
254	4-977-955-01	GEAR (SL-B)	
255	4-977-942-01	BELT (SL) (1.4)	
256	X-4946-667-1	CAM ASSY, BU	
257	1-452-538-11	MAGNET	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)	
* 259	1-658-575-11	CONNECTOR BOARD	
* 260	X-4946-668-1	CHASSIS (CDM) ASSY	

Ref. No.	Part No.	Description	Remark
* 260	X-4946-668-1	CHASSIS (CDM) ASSY	
261	4-933-134-01	SCREW (+PTPWH M2.6X6)	
* 262	1-658-578-12	MOTOR (SLIDE) BOARD	
263	4-982-447-01	SPRING (BU), COMPRESSION	
264	4-951-620-41	SCREW (2.6), +BVTP	
* 265	X-4946-666-1	HOLDER (BU) ASSY	
M801	A-4672-004-A	MOTOR ASSY (SLIDE)	
S811	1-473-335-11	ENCODER, ROTARY	

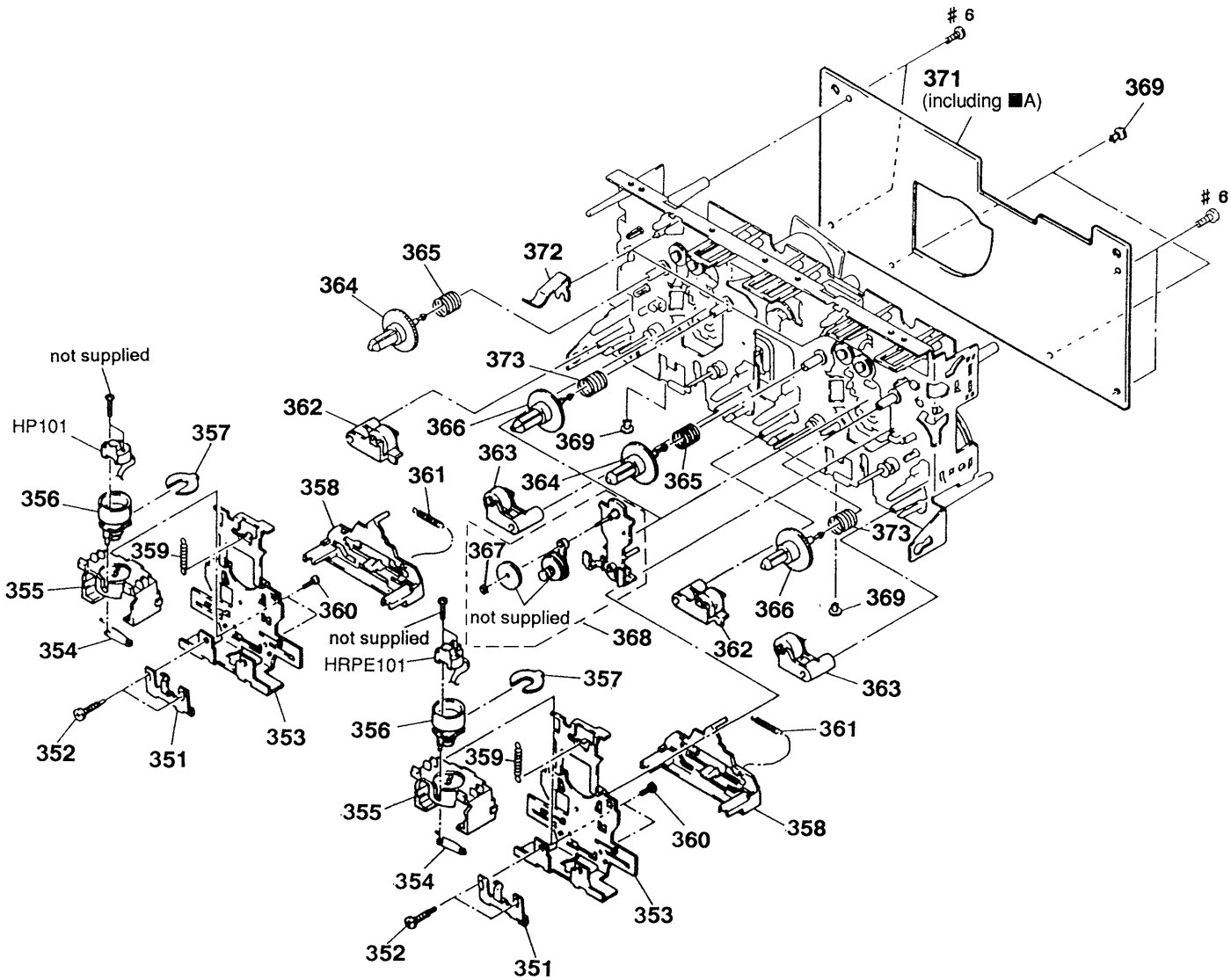
7-7. BASE UNIT SECTION (BU-5BD19)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠301	8-848-367-01	OPTICAL PICK-UP KSS-213BA/F-NP	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
303	4-917-567-01	GEAR (M)	
304	4-951-940-01	INSULATOR (BU)	
305	4-917-565-01	SHAFT, SLED	
306	4-917-564-01	GEAR (P), FLATNESS	
* 307	A-4673-402-A	BD BOARD, COMPLETE	
308	4-951-620-01	SCREW (2.6X8), +BVTP	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	

7-8. TC MECHANISM SECTION 1 (TCM-220 WR2E)

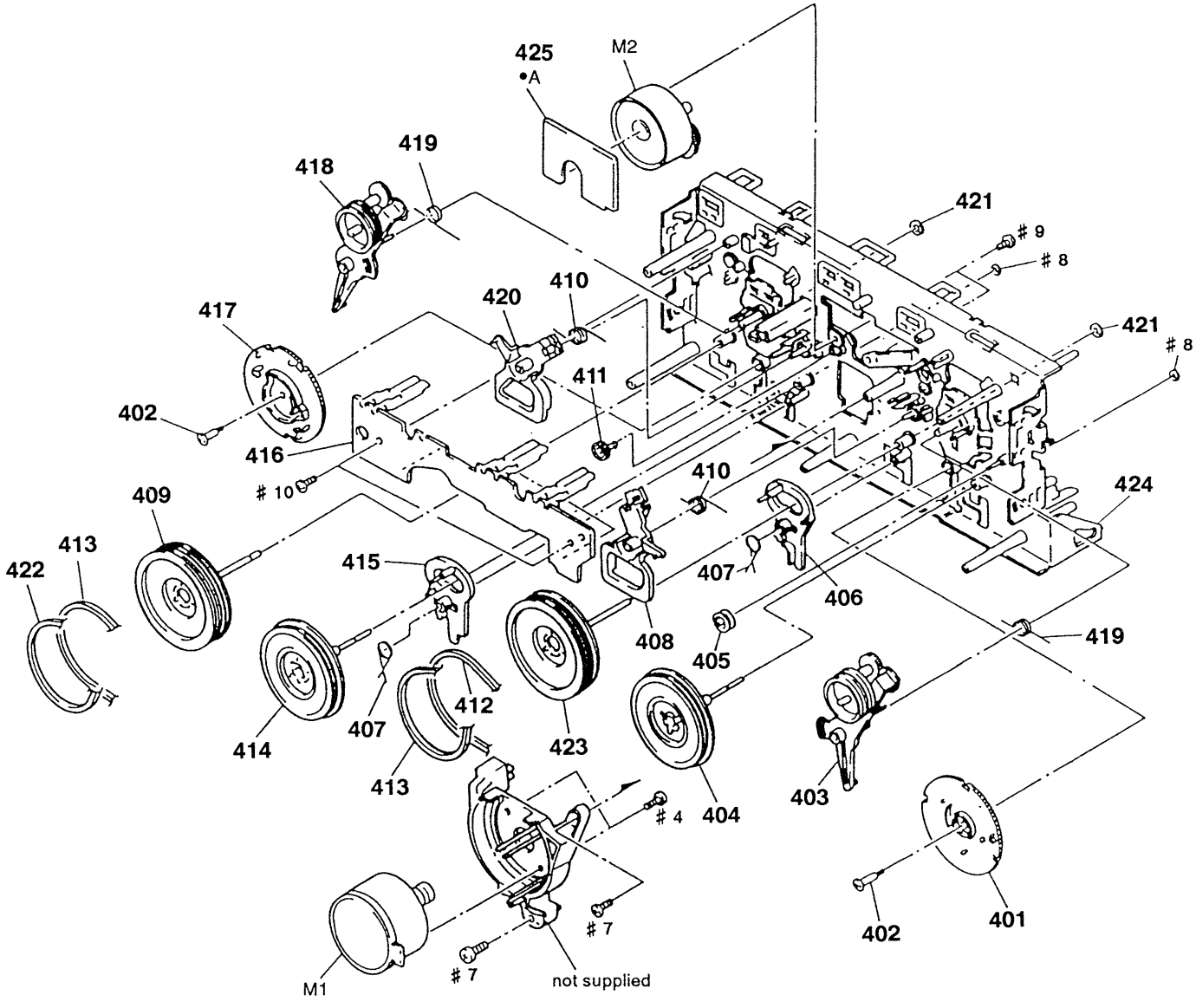


Ref. No.	Part No.	Description	Remark
351	3-908-560-01	SPRING, AZIMUTH ADJUSTMENT	
352	3-919-684-01	SCREW, AZIMUTH ADJUSTMENT	
* 353	X-3367-584-2	SLIDER (HEAD) ASSY	
354	3-908-556-01	SPRING, HEAD TOGGLE	
355	3-908-558-02	FITTING BLOCK, HEAD	
356	3-908-557-02	ROTARY BLOCK, HEAD	
* 357	3-908-559-01	STOPPER, AZIMUTH	
358	3-908-555-01	SLIDER (REV SLIDER)	
359	3-917-143-11	SPRING, TENSION	
360	3-388-848-01	SCREW (P2X6) (B TIGHT)	
361	3-911-113-01	SPRING, TENSION	
362	X-3370-643-1	PINCH LEVER (REV) ASSY	

Ref. No.	Part No.	Description	Remark
363	X-3367-588-1	PINCH LEVER (FWD) ASSY	
364	3-908-613-01	GEAR (S), REEL	
365	3-917-141-01	SPRING, COMPRESSION	
366	X-3371-305-1	REEL (T) ASSY	
367	3-669-465-01	WASHER (1.5), STOPPER	
368	X-3370-173-1	TU ASSY	
369	3-911-116-21	RIVET, PUSH	
* 371	A-2007-435-A	MD BOARD, COMPLETE	
372	3-930-972-01	DETENT, HALF	
373	3-917-142-01	SPRING, COMPRESSION	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)	

7-9. TC MECHANISM SECTION 2 (TCM-220 WR2E)

■ A: MOTOR board (Supplied with MD board)



Ref. No.	Part No.	Description	Remark
401	3-908-597-01	CAM (A)	
402	3-908-608-11	SCREW, STEP	
403	X-3367-590-2	ARM (A) ASSY, FR	
404	X-3370-169-1	FLYWHEEL (AR) ASSY	
405	3-928-047-01	PULLEY, TENSION	
406	3-908-599-01	LEVER (REV-A)	
407	3-908-601-01	SPRING (REV LEVER), TORSION	
408	3-908-603-01	LEVER (TRIGGER A)	
409	X-3370-170-1	FLYWHEEL (BF) ASSY	
410	3-908-605-01	SPRING (TRIGGER), TORSION	
411	3-908-609-01	GEAR, TRIGGER	
412	3-913-845-11	BELT (A)	
413	3-913-846-11	BELT (FR)	
414	X-3370-171-1	FLYWHEEL (BR) ASSY	
415	3-908-600-01	LEVER (REV-B)	
* 416	1-650-669-11	LEAF SWITCH BOARD	
417	3-908-598-01	CAM (B)	
418	X-3369-849-2	ARM (B) ASSY, FR	
419	3-914-111-01	SPRING (FR), TORSION	
420	3-908-604-01	LEVER (TRIGGER B)	
421	3-911-115-01	WASHER, STOPPER	
422	3-917-176-11	BELT (B)	
423	X-3370-172-1	FLYWHEEL (AF) ASSY	
424	X-3371-441-1	CHASSIS ASSY, MECHANICAL	
425	A-2007-435-A	MD BOARD, COMPLETE	
M1	X-3371-223-1	MOTOR ASSY (CAPSTAN)	
M2	A-2004-410-A	MOTOR ASSY (TRIGGER)	

SECTION 8
ELECTRICAL PARTS LIST

BD

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA..., uPB...: μPB..., uPC...: μPC..., uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Abbreviation
  CND : Canadian model
  G : German model
  IT : Italian model
  EE : East European model
  EA : Saudi Arabia model
  MX : Mexican model
  HK : Hong Kong model
  SP : Singapore model
  MY : Malaysia model
  AUS : Australian model
  AR : Argentine model
  TH : Thailand model.
  E2 : Without SW tuner model
  E3 : With SW tuner model

Ref.No.	Part No.	Description			Remark
*	A-4673-402-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-126-607-11	ELECT CHIP	47uF	20%	4V
C102	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C103	1-164-346-11	CERAMIC CHIP	1uF		16V
C105	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C106	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C107	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C108	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C109	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C110	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C111	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C113	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C114	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-163-016-00	CERAMIC CHIP	0.0039uF	10%	50V
C117	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C118	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C119	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C120	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C122	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C123	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C124	1-126-607-11	ELECT CHIP	47uF	20%	4V
C125	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C127	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C128	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C129	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C130	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C131	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C132	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C133	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C134	1-164-346-11	CERAMIC CHIP	1uF		16V
C135	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C136	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C137	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C139	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C140	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C141	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C142	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C145	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C146	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C147	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C148	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C149	1-164-346-11	CERAMIC CHIP	1uF		16V
C153	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C154	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
		< CONNECTOR >			
CNU101	1-770-014-11	CONNECTOR, FFC/FPC 16P			
CNU102	1-770-013-11	CONNECTOR, FFC/FPC 19P			
		< IC >			
IC101	8-752-069-56	IC CXA1782BQ			
IC102	8-759-291-06	IC BA6397FP			
IC103	8-752-372-94	IC CXD2507AQ			
IC104	8-759-185-29	IC PCM1710U-B			
		< TRANSISTOR >			
Q101	8-729-010-08	TRANSISTOR MSB710-R			
Q102	8-729-424-08	TRANSISTOR UN2111			
Q103	8-729-421-22	TRANSISTOR UN2211			
		< RESISTOR >			
R102	1-216-001-00	METAL CHIP	10	5%	1/10W
R103	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R104	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R105	1-216-093-00	METAL CHIP	68K	5%	1/10W
R106	1-216-093-00	METAL CHIP	68K	5%	1/10W
R107	1-216-093-00	METAL CHIP	68K	5%	1/10W
R108	1-216-093-00	METAL CHIP	68K	5%	1/10W
R109	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R112	1-216-083-00	METAL CHIP	27K	5%	1/10W
R113	1-216-083-00	METAL CHIP	27K	5%	1/10W
R114	1-216-101-00	METAL CHIP	150K	5%	1/10W
R115	1-216-101-00	METAL CHIP	150K	5%	1/10W
R116	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R117	1-216-069-00	METAL CHIP	6.8K	5%	1/10W

BD **CD SW**

Ref.No.	Part No.	Description				Remark
R118	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R119	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R120	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R121	1-216-114-00	METAL GLAZE	510K	5%	1/10W	
R122	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R123	1-216-099-00	METAL CHIP	120K	5%	1/10W	
R124	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R125	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R126	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W	
R127	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R128	1-216-105-91	METAL GLAZE	220K	5%	1/10W	
R129	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R130	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R131	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R132	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R133	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R134	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R135	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R136	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R137	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R138	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R139	1-216-033-00	METAL CHIP	220	5%	1/10W	
R140	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R141	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R142	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R143	1-216-121-91	METAL GLAZE	1M	5%	1/10W	
R144	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R145	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R146	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R147	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R148	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R149	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R150	1-216-037-00	METAL CHIP	330	5%	1/10W	
R151	1-216-037-00	METAL CHIP	330	5%	1/10W	
R152	1-216-037-00	METAL CHIP	330	5%	1/10W	
R153	1-216-082-00	METAL GLAZE	24K	5%	1/10W	
R154	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R156	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R157	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R158	1-216-001-00	METAL CHIP	10	5%	1/10W	
		< VARIABLE RESISTOR >				
RV101	1-241-396-11	RES, ADJ, METAL GLAZE	22K			
RV102	1-241-396-11	RES, ADJ, METAL GLAZE	22K			
RV103	1-241-396-11	RES, ADJ, METAL GLAZE	22K			
		< SWITCH >				
S101	1-572-085-11	SWITCH, LEAF (LIMIT)				

Ref.No.	Part No.	Description				Remark
		< VIBRATOR >				
X101	1-579-280-11	VIBRATOR, CRYSTAL (16.9344MHz)				
**********						
*	A-4389-157-A	CD SW BOARD, COMPLETE				
		**********				
		(H771:US, CND, AEP, UK, G, IT, EE/H771D)				
*	A-4389-418-A	CD SW BOARD, COMPLETE				
		**********				
		(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)				
*	A-4389-772-A	CD SW BOARD, COMPLETE (H771:TH)				
		**********				
		< CONNECTOR >				
* CN512	1-568-947-11	PIN, CONNECTOR 9P				
		< DIODE >				
D516	8-719-056-13	DIODE	SML79423C-TP15 (DISC 1)			
D517	8-719-056-13	DIODE	SML79423C-TP15 (DISC 1)			
D518	8-719-056-13	DIODE	SML79423C-TP15 (DISC 2)			
D519	8-719-056-13	DIODE	SML79423C-TP15 (DISC 2)			
D520	8-719-056-13	DIODE	SML79423C-TP15 (DISC 3)			
D521	8-719-056-13	DIODE	SML79423C-TP15 (DISC 3)			
D522	8-719-056-13	DIODE	SML79423C-TP15 (▷□□)			
		< TRANSISTOR >				
Q510	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q511	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q512	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q513	8-729-119-76	TRANSISTOR	2SA1175-HFE			
		< RESISTOR >				
R518	1-249-401-11	CARBON	47	5%	1/4W	F
R519	1-249-403-11	CARBON	68	5%	1/4W	F
R520	1-247-807-31	CARBON	100	5%	1/4W	
R521	1-249-407-11	CARBON	150	5%	1/4W	F
R522	1-249-407-11	CARBON	150	5%	1/4W	F
R523	1-249-409-11	CARBON	220	5%	1/4W	F
R524	1-249-411-11	CARBON	330	5%	1/4W	
R525	1-249-413-11	CARBON	470	5%	1/4W	F
R596	1-247-807-31	CARBON	100	5%	1/4W	
R597	1-247-807-31	CARBON	100	5%	1/4W	
R598	1-247-807-31	CARBON	100	5%	1/4W	
R599	1-247-807-31	CARBON	100	5%	1/4W	
R600	1-247-807-31	CARBON	100	5%	1/4W	
R601	1-247-807-31	CARBON	100	5%	1/4W	
R602	1-247-807-31	CARBON	100	5%	1/4W	
R603	1-247-807-31	CARBON	100	5%	1/4W	

Ref.No.	Part No.	Description				Remark
R604	1-247-807-31	CARBON	100	5%	1/4W	
R605	1-247-807-31	CARBON	100	5%	1/4W	
R606	1-247-807-31	CARBON	100	5%	1/4W	
R607	1-247-807-31	CARBON	100	5%	1/4W	
R608	1-247-807-31	CARBON	100	5%	1/4W	
R609	1-247-807-31	CARBON	100	5%	1/4W	
		< SWITCH >				
S500	1-554-303-21	SWITCH, TACTILE (POWER)				
S501	1-554-303-21	SWITCH, TACTILE (LOOP)				
S502	1-554-303-21	SWITCH, TACTILE (DISC SKIP EX-CHANGE)				
S503	1-554-303-21	SWITCH, TACTILE (DISC 1)				
S504	1-554-303-21	SWITCH, TACTILE (DISC 2)				
S505	1-554-303-21	SWITCH, TACTILE (DISC 3)				
S506	1-554-303-21	SWITCH, TACTILE (⏏ OPEN/CLOSE)				
S507	1-554-303-21	SWITCH, TACTILE (■)				
S508	1-554-303-21	SWITCH, TACTILE (▷▯▯)				
*	1-658-575-11	CONNECTOR BOARD				
		< CONNECTOR >				
* CN701	1-568-946-11	PIN, CONNECTOR 8P				
CN702	1-750-413-11	CONNECTOR, FFC/FPC 8P				
		< TRANSISTOR >				
Q701	8-729-900-80	TRANSISTOR DTC114ES				
		< RESISTOR >				
R703	1-249-435-11	CARBON	33K	5%	1/4W	
R704	1-249-429-11	CARBON	10K	5%	1/4W	
R705	1-249-417-11	CARBON	1K	5%	1/4W	F
*	1-233-544-11	ENCAPSLATED COMPONENT, FM/AM TUNER				(H771:US, CND/H771D)
*	1-233-545-11	ENCAPSLATED COMPONENT, FM/AM TUNER				(H771:E2, MX, AUS, AR)
*	1-233-546-11	ENCAPSLATED COMPONENT, FM/AM TUNER				(H771:E3, EA, HK, MY, SP)

Ref.No.	Part No.	Description				Remark
*	A-4389-156-A	HP BOARD, COMPLETE				(H771:US, CND, AEP, UK, G, IT, EE/H771D)
*	A-4389-417-A	HP BOARD, COMPLETE				(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
*	A-4389-771-A	HP BOARD, COMPLETE (H771:TH)				
		< CAPACITOR >				
C529	1-164-159-11	CERAMIC	0.1uF		50V	
C530	1-126-163-11	ELECT	4.7uF	20%	50V	
C531	1-124-464-11	ELECT	0.22uF	20%	50V	
C532	1-164-159-11	CERAMIC	0.1uF		50V	
C533	1-126-160-11	ELECT	1uF	20%	50V	
C534	1-136-155-00	FILM	0.015uF	5%	50V	
C535	1-124-464-11	ELECT	0.22uF	20%	50V	
C536	1-136-167-00	FILM	0.15uF	5%	50V	
C537	1-162-302-11	CERAMIC	0.0022uF	30%	16V	
C538	1-124-464-11	ELECT	0.22uF	20%	50V	
C570	1-164-159-11	CERAMIC	0.1uF		50V	
C571	1-164-159-11	CERAMIC	0.1uF		50V	
C640	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C642	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C643	1-162-215-31	CERAMIC	47PF	5%	50V	
C644	1-162-290-31	CERAMIC	470PF	10%	50V	
C645	1-124-254-00	ELECT	0.68uF	20%	50V	
C646	1-162-282-31	CERAMIC	100PF	10%	50V	
C647	1-162-215-31	CERAMIC	47PF	5%	50V	
C648	1-124-257-00	ELECT	2.2uF	20%	50V	
C649	1-124-589-11	ELECT	47uF	20%	16V	
C650	1-124-589-11	ELECT	47uF	20%	16V	
C651	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C652	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C661	1-124-463-00	ELECT	0.1uF	20%	50V	
		< CONNECTOR >				
* CN514	1-568-944-11	PIN, CONNECTOR 6P				
		< DIODE >				
D560	8-719-987-63	DIODE 1N4148M				
D561	8-719-987-63	DIODE 1N4148M				
D562	8-719-987-63	DIODE 1N4148M				
		< IC >				
IC601	8-759-634-51	IC M5218AP				
		< JACK >				
J501	1-770-226-11	JACK (LARGE TYPE) (PHONES)				

HP JOG LEAF SWITCH

Ref. No.	Part No.	Description				Remark
J601	1-770-226-11	JACK (LARGE TYPE)(MIX MIC)				
		< RESISTOR >				
R631	1-247-899-11	CARBON	680K	5%	1/4W	
R632	1-247-899-11	CARBON	680K	5%	1/4W	
R633	1-247-899-11	CARBON	680K	5%	1/4W	
R640	1-249-429-11	CARBON	10K	5%	1/4W	
R641	1-249-429-11	CARBON	10K	5%	1/4W	
R642	1-249-417-11	CARBON	1K	5%	1/4W	F
R643	1-249-417-11	CARBON	1K	5%	1/4W	F
R644	1-249-433-11	CARBON	22K	5%	1/4W	
R645	1-249-429-11	CARBON	10K	5%	1/4W	
R653	1-249-411-11	CARBON	330	5%	1/4W	
R654	1-249-437-11	CARBON	47K	5%	1/4W	
R655	1-247-895-00	CARBON	470K	5%	1/4W	
R656	1-249-411-11	CARBON	330	5%	1/4W	
R657	1-249-437-11	CARBON	47K	5%	1/4W	
R658	1-247-895-00	CARBON	470K	5%	1/4W	
R659	1-249-411-11	CARBON	330	5%	1/4W	
R660	1-249-437-11	CARBON	47K	5%	1/4W	
R661	1-247-895-00	CARBON	470K	5%	1/4W	
R666	1-247-881-00	CARBON	120K	5%	1/4W	
R667	1-247-807-31	CARBON	100	5%	1/4W	
		< VARIABLE RESISTOR >				
RV601	1-223-984-11	RES, VAR, CARBON 50K (MIC LEVEL)				
**********						
*	A-4389-190-A	JOG BOARD, COMPLETE				
		**********				
		(H771:US, CND, AEP, UK, G, IT, EE/H771D)				
*	A-4389-419-A	JOG BOARD, COMPLETE				
		**********				
		(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)				
*	A-4389-773-A	JOG BOARD, COMPLETE (H771:TH)				
		**********				
		< CAPACITOR >				
C524	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C525	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C526	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C527	1-162-306-11	CERAMIC	0.01uF	30%	16V	
		< DIODE >				
D508	8-719-033-06	DIODE	SEL5920A (KARAOKE PON/MPX)			
D509	8-719-812-44	DIODE	TLO124 (ENTER/NEXT)			
D510	8-719-033-06	DIODE	SEL5920A (▶▶▌)			
D511	8-719-033-06	DIODE	SEL5920A (▌◀◀)			
D512	8-719-033-06	DIODE	SEL5920A (↘)			
D513	8-719-033-06	DIODE	SEL5920A (↙)			
D514	8-719-033-06	DIODE	SEL5920A (+)			
D515	8-719-033-06	DIODE	SEL5920A (-)			
		< TRANSISTOR >				
Q507	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q508	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q509	8-729-119-76	TRANSISTOR	2SA1175-HFE			
		< RESISTOR >				
R541	1-249-413-11	CARBON	470	5%	1/4W	F
R542	1-249-415-11	CARBON	680	5%	1/4W	F
R543	1-249-417-11	CARBON	1K	5%	1/4W	F
R544	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R545	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R546	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R588	1-247-807-31	CARBON	100	5%	1/4W	
R589	1-249-407-11	CARBON	150	5%	1/4W	F
R590	1-247-807-31	CARBON	100	5%	1/4W	
R591	1-247-807-31	CARBON	100	5%	1/4W	
R592	1-247-807-31	CARBON	100	5%	1/4W	
R593	1-247-807-31	CARBON	100	5%	1/4W	
R594	1-247-807-31	CARBON	100	5%	1/4W	
R595	1-247-807-31	CARBON	100	5%	1/4W	
		< SWITCH >				
S524	1-554-303-21	SWITCH, TACTILE (DBFB)				
S525	1-554-303-21	SWITCH, TACTILE (KARAOKE PON/MPX)				
S527	1-554-303-21	SWITCH, TACTILE (FREQUENCY +)				
S528	1-554-303-21	SWITCH, TACTILE (ENTER/NEXT)				
S529	1-554-303-21	SWITCH, TACTILE (FREQUENCY -)				
S561	1-467-869-11	ENCODER, ROTARY (VOLUME, +, -)				
S562	1-467-968-11	ENCODER, ROTARY				
		(- ▌◀◀, MULTI JOG STATION, ▶▶▌ +)				
**********						
*	1-650-669-11	LEAF SWITCH BOARD				
		**********				
		< CONNECTOR >				
* CN1001	1-568-854-11	SOCKET, CONNECTOR 11P				
		< PHOTO REFLECTOR >				
Q1001	8-749-010-90	PHOTO REFLECTOR NJL5165KA-H2				
Q1002	8-749-010-90	PHOTO REFLECTOR NJL5165KA-H2				
		< RESISTOR >				
R1001	1-249-412-11	CARBON	390	5%	1/4W	F
R1002	1-249-412-11	CARBON	390	5%	1/4W	F
R1003	1-249-414-11	CARBON	560	5%	1/4W	F

Ref.No.	Part No.	Description			Remark
R1004	1-247-834-11	CARBON	1.3K	5% 1/4W	
R1005	1-247-818-11	CARBON	300	5% 1/4W	
		< SWITCH >			
S1001	1-692-832-11	SWITCH, PUSH (1 KEY)(A PLAY)			
S1002	1-692-832-11	SWITCH, PUSH (1 KEY)(B PLAY)			
S1003	1-572-248-11	SWITCH, LEAF (A HALF)			
S1004	1-571-281-21	SWITCH, LEAF (A CrO2)			
S1005	1-571-281-21	SWITCH, LEAF (REC A)			
S1006	1-572-248-11	SWITCH, LEAF (B HALF)			
S1008	1-571-281-21	SWITCH, LEAF (B CrO2)			
S1009	1-571-281-21	SWITCH, LEAF (REC B)			
**********					
*	A-4389-173-A	MAIN BOARD, COMPLETE (H771:AEP, UK)			
		**********			
*	A-4389-175-A	MAIN BOARD, COMPLETE (H771:G, IT)			
		**********			
*	A-4389-176-A	MAIN BOARD, COMPLETE (H771:EE)			
		**********			
*	A-4389-177-A	MAIN BOARD, COMPLETE (H771:CIS)			
		**********			
*	A-4389-178-A	MAIN BOARD, COMPLETE (H771:E2, MX, AR)			
		**********			
*	A-4389-180-A	MAIN BOARD, COMPLETE			
		********** (H771:E3, EA, MY, HK, SP)			
*	A-4389-775-A	MAIN BOARD, COMPLETE (H771:TH)			
		**********			
*	A-4389-929-A	MAIN BOARD, COMPLETE (H771:US, CND)			
		**********			
*	A-4389-933-A	MAIN BOARD, COMPLETE (H771D)			
		**********			
*	A-4390-653-A	MAIN BOARD, COMPLETE (H771:AUS)			
		**********			
	1-537-770-21	TERMINAL BOARD, GROUND			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C201	1-126-961-11	ELECT	2.2uF	20% 50V	
C202	1-162-600-11	CERAMIC	0.0047uF	30% 16V	
C203	1-124-472-11	ELECT	470uF	20% 10V	
C204	1-162-282-31	CERAMIC	100PF	10% 50V	
C205	1-162-282-31	CERAMIC	100PF	10% 50V	
C209	1-126-941-11	ELECT	470uF	20% 6.3V	

Ref.No.	Part No.	Description			Remark
C251	1-126-961-11	ELECT	2.2uF	20% 50V	
C252	1-162-600-11	CERAMIC	0.0047uF	30% 16V	
C301	1-130-479-00	MYLAR	0.0047uF	5% 50V	
C302	1-162-290-31	CERAMIC	470PF	10% 50V	
C303	1-136-165-00	FILM	0.1uF	5% 50V	
C305	1-124-903-11	ELECT	1uF	20% 50V	
C306	1-124-902-00	ELECT	0.47uF	20% 50V	
C307	1-126-964-11	ELECT	10uF	20% 50V	
C308	1-126-964-11	ELECT	10uF	20% 50V	
C309	1-124-903-11	ELECT	1uF	20% 50V	
C310	1-126-933-11	ELECT	100uF	20% 10V	
C351	1-130-479-00	MYLAR	0.0047uF	5% 50V	
C352	1-162-290-31	CERAMIC	470PF	10% 50V	
C353	1-136-165-00	FILM	0.1uF	5% 50V	
C355	1-124-903-11	ELECT	1uF	20% 50V	
C356	1-124-902-00	ELECT	0.47uF	20% 50V	
C357	1-126-964-11	ELECT	10uF	20% 50V	
C358	1-126-964-11	ELECT	10uF	20% 50V	
C359	1-124-903-11	ELECT	1uF	20% 50V	
C360	1-126-933-11	ELECT	100uF	20% 10V	
C401	1-164-159-11	CERAMIC	0.1uF	50V	
C402	1-164-159-11	CERAMIC	0.1uF	50V	
C403	1-164-159-11	CERAMIC	0.1uF	50V	
C404	1-126-933-11	ELECT	100uF	20% 16V	
C405	1-126-952-11	ELECT	1000uF	20% 16V	
C701	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C702	1-126-926-11	ELECT	1000uF	20% 10V	
C703	1-126-964-11	ELECT	10uF	20% 50V	
C704	1-136-165-00	FILM	0.1uF	5% 50V	
C705	1-136-165-00	FILM	0.1uF	5% 50V	
C706	1-126-965-11	ELECT	22uF	20% 50V	
C707	1-162-206-31	CERAMIC	20PF	5% 50V	
C708	1-162-206-31	CERAMIC	20PF	5% 50V	
C710	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C713	1-162-306-11	CERAMIC	0.01uF	30% 16V (H771:US, CND, AEP, UK, G, IT, EE/H771D)	
C789	1-126-923-11	ELECT	220uF	20% 10V	
C810	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C811	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C821	1-162-286-31	CERAMIC	220PF	10% 50V	
C825	1-109-889-11	ELECT	1uF	20% 50V	
C831	1-162-286-21	CERAMIC	220PF	10% 50V	
C871	1-162-286-31	CERAMIC	220PF	10% 50V	
C881	1-162-286-21	CERAMIC	220PF	10% 50V	
C901	1-136-169-00	FILM	0.22uF	5% 50V	
C902	1-136-169-00	FILM	0.22uF	5% 50V	
C903	1-136-495-11	FILM	0.068uF	5% 50V	
C904	1-136-495-11	FILM	0.068uF	5% 50V	
C905	1-136-156-00	FILM	0.018uF	5% 50V	
C906	1-136-156-00	FILM	0.018uF	5% 50V	

MAIN

Ref.No.	Part No.	Description			Remark
C907	1-130-480-00	MYLAR	0.0056uF	5%	50V
C908	1-130-479-00	MYLAR	0.0047uF	5%	50V
C909	1-130-474-00	MYLAR	0.0018uF	5%	50V
C910	1-126-964-11	ELECT	10uF	20%	50V
C911	1-126-964-11	ELECT	10uF	20%	50V
C912	1-136-165-00	FILM	0.1uF	5%	50V
C913	1-136-165-00	FILM	0.1uF	5%	50V
C914	1-126-964-11	ELECT	10uF	20%	50V
C930	1-136-165-00	FILM	0.1uF	5%	50V
C931	1-136-153-00	FILM	0.01uF	5%	50V
C933	1-124-902-00	ELECT	0.47uF	20%	50V
C935	1-164-159-11	CERAMIC	0.1uF		50V
C936	1-126-964-11	ELECT	10uF	20%	50V
C938	1-162-290-31	CERAMIC	470PF	10%	50V
C939	1-126-967-11	ELECT	47uF	20%	10V
C940	1-126-967-11	ELECT	47uF	20%	10V
C951	1-136-169-00	FILM	0.22uF	5%	50V
C952	1-136-169-00	FILM	0.22uF	5%	50V
C953	1-136-495-11	FILM	0.068uF	5%	50V
C954	1-136-495-11	FILM	0.068uF	5%	50V
C955	1-136-156-00	FILM	0.018uF	5%	50V
C956	1-136-156-00	FILM	0.018uF	5%	50V
C957	1-130-480-00	MYLAR	0.0056uF	5%	50V
C958	1-130-479-00	MYLAR	0.0047uF	5%	50V
C959	1-130-474-00	MYLAR	0.0018uF	5%	50V
C960	1-126-964-11	ELECT	10uF	20%	50V
C961	1-126-964-11	ELECT	10uF	20%	50V
C962	1-136-165-00	FILM	0.1uF	5%	50V
C963	1-136-165-00	FILM	0.1uF	5%	50V
C964	1-126-964-11	ELECT	10uF	20%	50V
C1001	1-126-937-11	ELECT	4700uF	20%	16V
C1002	1-126-768-11	ELECT	2200uF	20%	16V
C1003	1-126-964-11	ELECT	10uF	20%	50V
C1005	1-126-964-11	ELECT	10uF	20%	50V
C1006	1-126-933-11	ELECT	100uF	20%	10V
C1007	1-126-934-11	ELECT	220uF	20%	16V
C1008	1-126-933-11	ELECT	100uF	20%	16V
C1010	1-164-159-11	CERAMIC	0.1uF		50V
C1011	1-164-159-11	CERAMIC	0.1uF		50V
C1012	1-126-964-11	ELECT	10uF	20%	50V
C1013	1-126-916-11	ELECT	1000uF	20%	6.3V
C1014	1-126-964-11	ELECT	10uF	20%	50V
C1015	1-126-964-11	ELECT	10uF	20%	50V
C1016	1-126-925-11	ELECT	470uF	20%	10V
C1017	1-126-925-11	ELECT	470uF	20%	10V
C1018	1-126-942-61	ELECT	1000uF	20%	25V
C1019	1-126-934-11	ELECT	220uF	20%	16V
C1020	1-126-947-11	ELECT	47uF	20%	35V
C1021	1-126-964-11	ELECT	10uF	20%	50V
C1022	1-126-968-11	ELECT	100uF	20%	50V

Ref.No.	Part No.	Description			Remark
C1023	1-126-968-11	ELECT	100uF	20%	50V
C1025	1-126-925-11	ELECT	470uF	20%	10V
C1026	1-126-925-11	ELECT	470uF	20%	10V
C1221	1-126-933-11	ELECT	100uF	20%	10V
C1222	1-126-923-11	ELECT	220uF	20%	10V
C1223	1-126-923-11	ELECT	220uF	20%	10V
C1224	1-124-925-11	ELECT	2.2uF	20%	100V
C1230	1-126-974-11	ELECT	3300uF	20%	50V
C1235	1-126-974-11	ELECT	3300uF	20%	50V
C1248	1-136-495-11	FILM	0.068uF	5%	50V (H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)
C1249	1-136-495-11	FILM	0.068uF	5%	50V (H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)
C1250	1-162-294-31	CERAMIC	0.001uF	10%	50V (H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)
C1270	1-130-781-00	FILM	0.22uF	10%	100V
C1271	1-130-781-00	FILM	0.22uF	10%	100V
C1280	1-162-282-31	CERAMIC	100PF	10%	50V (H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)
C1298	1-136-495-11	FILM	0.068uF	5%	50V (H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)
C1299	1-136-495-11	FILM	0.068uF	5%	50V (H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)
C1300	1-162-294-31	CERAMIC	0.001uF	10%	50V (H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)
		< CONNECTOR >			
CN201	1-770-067-11	CONNECTOR, FFC/FPC 19P			
* CN202	1-568-936-11	PIN, CONNECTOR 9P			
* CN203	1-568-935-11	PIN, CONNECTOR 8P			
CN401	1-568-838-11	SOCKET, CONNECTOR 21P			
* CN402	1-568-830-11	SOCKET, CONNECTOR 11P			
* CN403	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P			
* CN404	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P			
* CN702	1-568-832-11	SOCKET, CONNECTOR 13P			
* CN703	1-568-832-11	SOCKET, CONNECTOR 13P (H771:US, CND, E2, AUS, MX, AR, TH/H771D)			
* CN703	1-568-834-11	SOCKET, CONNECTOR 15P (H771:AEP, UK, E3, G, IT, EE, CIS, EA, MY, HK, SP)			
* CN1001	1-564-513-11	PLUG, CONNECTOR 10P			
		< DIODE >			
D201	8-719-987-63	DIODE	1N4148M		
D202	8-719-987-63	DIODE	1N4148M		
D401	8-719-933-54	DIODE	HZS9A2L		
D701	8-719-987-63	DIODE	1N4148M		
D702	8-719-987-63	DIODE	1N4148M		
D703	8-719-987-63	DIODE	1N4148M		
D704	8-719-987-63	DIODE	1N4148M		
D705	8-719-987-63	DIODE	1N4148M		
D706	8-719-024-99	DIODE	11ES2-NTA2B (H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)		

Ref. No.	Part No.	Description	Remark
D706	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D707	8-719-987-63	DIODE 1N4148M	
D708	8-719-987-63	DIODE 1N4148M	
D721	8-719-987-63	DIODE 1N4148M	
D722	8-719-987-63	DIODE 1N4148M	
D1001	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1001	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1002	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1002	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1003	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1003	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1004	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1004	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1005	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1005	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1006	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1006	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1007	8-719-987-63	DIODE 1N4148M	
D1008	8-719-001-42	DIODE UZL-11M1	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1008	8-719-001-43	DIODE UZL-11M1-TA	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1013	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1009	8-719-987-63	DIODE 1N4148M	
D1010	8-719-987-63	DIODE 1N4148M	
D1011	8-719-010-43	DIODE UZ-5.6BSC	
D1013	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1014	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1014	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1016	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1016	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1017	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1017	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1018	8-719-024-99	DIODE 11ES2-NTA2B	(H771:E, AUS, CIS, EA, MX, MY, HK, SP, AR)
D1018	8-719-200-82	DIODE 11ES2	(H771:US, CND, AEP, UK, G, IT, EE, TH/H771D)
D1021	8-719-025-01	DIODE 11ES2-NTA1B	
D1022	8-719-025-01	DIODE 11ES2-NTA1B	
D1023	8-719-012-37	DIODE UZ-30BS-TA	
D1059	8-719-987-63	DIODE 1N4148M	
D1069	8-719-987-63	DIODE 1N4148M	
D1204	8-719-987-63	DIODE 1N4148M	
D1205	8-719-987-63	DIODE 1N4148M	
D1230	8-719-987-63	DIODE 1N4148M	
D1250	8-719-028-23	DIODE D3SBA20-4101	(H771:AEP, UK, G, IT, EE, CIS)
D1250	8-719-510-68	DIODE D5SBA20F01	(H771:US, CND, E, AUS, EA, MX, MY, HK, SP, AR, TH/H771D)
D1309	8-719-987-63	DIODE 1N4148M	
D1310	8-719-987-63	DIODE 1N4148M	
		< FUSE HOLDER >	
FH1001	1-533-217-31	HOLDER, FUSE	
FH1002	1-533-217-31	HOLDER, FUSE	
FH1003	1-533-217-31	HOLDER, FUSE	
FH1004	1-533-217-31	HOLDER, FUSE	
		< IC >	
IC401	8-759-289-38	IC HA12195NT	
IC402	8-759-822-09	IC LB1641	
IC701	8-759-392-42	IC TMP87CS64YF-6397	
IC702	8-759-165-80	IC PST600C-T	
IC802	8-759-000-48	IC MC14052BCP	
IC901	8-759-331-39	IC M62427FP	
IC902	8-759-634-51	IC M5218AP	
IC1001	8-759-231-53	IC TA7805S	
IC1002	8-759-604-86	IC M5F7807L	
IC1003	8-759-604-86	IC M5F7807L	
IC1004	8-759-604-90	IC M5F7907L	
IC1202	8-759-111-68	IC uPC1237HA	
		< JACK >	
J801	1-695-188-31	JACK, PIN 4P (VIDEO/MD)	(EXCEPT H771:US, CND)
J801	1-695-188-31	JACK, PIN 4P (100CD/VIDEO)	(H771:US, CND)
J1201	1-774-785-11	JACK, PIN 1P (SUPER WOOFER)	(H771:US, CND, E, AUS, EA, MX, MY, HK, SP, AR, TH)
		< COIL >	
L1201	1-420-872-00	COIL, AIR-CORE	(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)
L1251	1-420-872-00	COIL, AIR-CORE	(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)

MAIN

Ref.No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q301	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q351	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q402	8-729-900-65	TRANSISTOR DTA144ES	
Q403	8-729-801-93	TRANSISTOR 2SD1387	
Q406	8-729-900-80	TRANSISTOR DTC114ES	
Q407	8-729-422-57	TRANSISTOR UN4111	
Q408	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q409	8-729-900-80	TRANSISTOR DTC114ES	
Q410	8-729-900-65	TRANSISTOR DTA144ES	
Q411	8-729-900-65	TRANSISTOR DTA144ES	
Q412	8-729-900-65	TRANSISTOR DTA144ES	
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q820	8-729-422-57	TRANSISTOR UN4111	
Q821	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q871	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q902	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q951	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q952	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q953	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q954	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1001	8-729-118-01	TRANSISTOR 2SB1116	
Q1002	8-729-900-36	TRANSISTOR DTC124ES	
Q1003	8-729-030-18	TRANSISTOR 2SD2525	
Q1006	8-729-030-19	TRANSISTOR 2SB1640	
Q1204	8-729-900-63	TRANSISTOR DTA124ES	
Q1205	8-729-900-36	TRANSISTOR DTC124ES	
Q1206	8-729-900-80	TRANSISTOR DTC114ES	
Q1207	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1208	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		< RESISTOR >	
R201	1-249-415-11	CARBON 680 5% 1/4W	F
R202	1-249-435-11	CARBON 33K 5% 1/4W	
R203	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R206	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R207	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R208	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R251	1-249-415-11	CARBON 680 5% 1/4W	F
R252	1-249-435-11	CARBON 33K 5% 1/4W	
R301	1-249-430-11	CARBON 12K 5% 1/4W	
R302	1-249-431-11	CARBON 15K 5% 1/4W	
R303	1-249-432-11	CARBON 18K 5% 1/4W	
R304	1-249-428-11	CARBON 8.2K 5% 1/4W	F
R305	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R306	1-249-420-11	CARBON 1.8K 5% 1/4W	F
R307	1-249-433-11	CARBON 22K 5% 1/4W	

Ref.No.	Part No.	Description	Remark
R308	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R309	1-249-428-11	CARBON 8.2K 5% 1/4W	F
R310	1-249-417-11	CARBON 1K 5% 1/4W	F
R351	1-249-430-11	CARBON 12K 5% 1/4W	
R352	1-249-431-11	CARBON 15K 5% 1/4W	
R354	1-249-428-11	CARBON 8.2K 5% 1/4W	F
R355	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R356	1-249-420-11	CARBON 1.8K 5% 1/4W	F
R357	1-249-433-11	CARBON 22K 5% 1/4W	
R358	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R359	1-249-428-11	CARBON 8.2K 5% 1/4W	F
R360	1-249-417-11	CARBON 1K 5% 1/4W	F
R401	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R402	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R403	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R404	1-249-417-11	CARBON 1K 5% 1/4W	F
R405	1-249-437-11	CARBON 47K 5% 1/4W	
R406	1-249-437-11	CARBON 47K 5% 1/4W	
R407	1-249-437-11	CARBON 47K 5% 1/4W	
R408	1-249-437-11	CARBON 47K 5% 1/4W	
R409	1-249-429-11	CARBON 10K 5% 1/4W	
R410	1-247-882-11	CARBON 130K 5% 1/4W	
R411	1-247-866-11	CARBON 30K 5% 1/4W	
R412	1-249-429-11	CARBON 10K 5% 1/4W	
R413	1-247-864-11	CARBON 24K 5% 1/4W	
R414	1-249-429-11	CARBON 10K 5% 1/4W	
R415	1-249-429-11	CARBON 10K 5% 1/4W	
R416	1-249-429-11	CARBON 10K 5% 1/4W	
R417	1-249-429-11	CARBON 10K 5% 1/4W	
R418	1-249-429-11	CARBON 10K 5% 1/4W	
R419	1-249-429-11	CARBON 10K 5% 1/4W	
R420	1-249-429-11	CARBON 10K 5% 1/4W	
R421	1-249-429-11	CARBON 10K 5% 1/4W	
R454	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R455	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R456	1-249-411-11	CARBON 330 5% 1/4W	
R457	1-249-427-11	CARBON 6.8K 5% 1/4W	F
R458	1-249-429-11	CARBON 10K 5% 1/4W	
R461	1-249-417-11	CARBON 1K 5% 1/4W	F
R701	1-249-429-11	CARBON 10K 5% 1/4W	
R702	1-249-437-11	CARBON 47K 5% 1/4W	
R703	1-249-437-11	CARBON 47K 5% 1/4W	
R704	1-249-429-11	CARBON 10K 5% 1/4W	
R705	1-249-429-11	CARBON 10K 5% 1/4W	
R708	1-249-429-11	CARBON 10K 5% 1/4W	
R709	1-249-429-11	CARBON 10K 5% 1/4W	
R710	1-249-429-11	CARBON 10K 5% 1/4W	
R711	1-249-429-11	CARBON 10K 5% 1/4W	
R712	1-249-429-11	CARBON 10K 5% 1/4W	
R713	1-249-429-11	CARBON 10K 5% 1/4W	

Ref.No.	Part No.	Description				Remark
R714	1-249-429-11	CARBON	10K	5%	1/4W	
R715	1-249-429-11	CARBON	10K	5%	1/4W	
R716	1-247-807-31	CARBON	100	5%	1/4W	
R717	1-247-807-31	CARBON	100	5%	1/4W	
R718	1-247-807-31	CARBON	100	5%	1/4W	
R719	1-247-807-31	CARBON	100	5%	1/4W	
R720	1-247-807-31	CARBON	100	5%	1/4W	
R721	1-247-807-31	CARBON	100	5%	1/4W	
R724	1-247-807-31	CARBON	100	5%	1/4W	
R725	1-247-807-31	CARBON	100	5%	1/4W	
R726	1-247-807-31	CARBON	100	5%	1/4W	
R727	1-247-807-31	CARBON	100	5%	1/4W	
R728	1-247-807-31	CARBON	100	5%	1/4W	
R729	1-247-807-31	CARBON	100	5%	1/4W	
R730	1-247-807-31	CARBON	100	5%	1/4W	
R731	1-247-807-31	CARBON	100	5%	1/4W	
R732	1-247-807-31	CARBON	100	5%	1/4W	
R733	1-247-807-31	CARBON	100	5%	1/4W	
R734	1-247-807-31	CARBON	100	5%	1/4W	
R735	1-247-807-31	CARBON	100	5%	1/4W	
R736	1-247-807-31	CARBON	100	5%	1/4W	
R737	1-247-807-31	CARBON	100	5%	1/4W	
R738	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R739	1-249-433-11	CARBON	22K	5%	1/4W	
R740	1-249-423-11	CARBON	3.3K	5%	1/4W	F
						(H771:AUS)
R740	1-249-425-11	CARBON	4.7K	5%	1/4W	F
						(H771:E2, MX, AR, TH)
R740	1-249-427-11	CARBON	6.8K	5%	1/4W	F
						(H771:G, IT/H771D)
R740	1-249-429-11	CARBON	10K	5%	1/4W	
						(H771:AEP, UK)
R740	1-249-433-11	CARBON	22K	5%	1/4W	
						(H771:CIS)
R740	1-249-435-11	CARBON	33K	5%	1/4W	
						(H771:EE)
R741	1-249-421-11	CARBON	2.2K	5%	1/4W	F
						(H771:CIS)
R741	1-249-423-11	CARBON	3.3K	5%	1/4W	F
						(H771:AEP, UK, G, IT)
R741	1-249-425-11	CARBON	4.7K	5%	1/4W	F
						(H771D)
R741	1-249-427-11	CARBON	6.8K	5%	1/4W	F
						(H771:E2, EE, MX, AR, TH)
R741	1-249-429-11	CARBON	10K	5%	1/4W	
						(H771:AUS)
R742	1-247-807-31	CARBON	100	5%	1/4W	
R743	1-247-807-31	CARBON	100	5%	1/4W	
R744	1-247-807-31	CARBON	100	5%	1/4W	
R745	1-247-807-31	CARBON	100	5%	1/4W	
R746	1-249-429-11	CARBON	10K	5%	1/4W	
R747	1-249-429-11	CARBON	10K	5%	1/4W	

Ref.No.	Part No.	Description				Remark
R748	1-249-429-11	CARBON	10K	5%	1/4W	
R749	1-249-429-11	CARBON	10K	5%	1/4W	
R750	1-247-807-31	CARBON	100	5%	1/4W	
R751	1-247-807-31	CARBON	100	5%	1/4W	
R752	1-247-807-31	CARBON	100	5%	1/4W	
R753	1-247-807-31	CARBON	100	5%	1/4W	
R756	1-249-429-11	CARBON	10K	5%	1/4W	
R757	1-247-807-31	CARBON	100	5%	1/4W	
R758	1-247-807-31	CARBON	100	5%	1/4W	
R759	1-247-807-31	CARBON	100	5%	1/4W	
R760	1-247-807-31	CARBON	100	5%	1/4W	
R761	1-247-807-31	CARBON	100	5%	1/4W	
R762	1-249-429-11	CARBON	10K	5%	1/4W	
R763	1-249-429-11	CARBON	10K	5%	1/4W	
R764	1-249-429-11	CARBON	10K	5%	1/4W	
R821	1-249-423-11	CARBON	3.3K	5%	1/4W	
R822	1-249-427-11	CARBON	6.8K	5%	1/4W	
R823	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R824	1-249-429-11	CARBON	10K	5%	1/4W	
R826	1-249-441-11	CARBON	100K	5%	1/4W	
R829	1-249-421-11	CARBON	2.2K	5%	1/4W	
R831	1-249-417-11	CARBON	1K	5%	1/4W	
R832	1-249-441-11	CARBON	100K	5%	1/4W	
R871	1-249-423-11	CARBON	3.3K	5%	1/4W	
R872	1-249-427-11	CARBON	6.8K	5%	1/4W	
R873	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R874	1-249-429-11	CARBON	10K	5%	1/4W	
R875	1-249-429-11	CARBON	10K	5%	1/4W	
R876	1-249-441-11	CARBON	100K	5%	1/4W	
R877	1-247-887-00	CARBON	220K	5%	1/4W	
R881	1-249-417-11	CARBON	1K	5%	1/4W	
R882	1-249-441-11	CARBON	100K	5%	1/4W	
R901	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R902	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R903	1-249-437-11	CARBON	47K	5%	1/4W	
R905	1-249-441-11	CARBON	100K	5%	1/4W	
R906	1-247-895-00	CARBON	470K	5%	1/4W	
R907	1-247-883-00	CARBON	150K	5%	1/4W	
R908	1-249-433-11	CARBON	22K	5%	1/4W	
R909	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R910	1-249-429-11	CARBON	10K	5%	1/4W	
R911	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R912	1-249-441-11	CARBON	100K	5%	1/4W	
R913	1-249-429-11	CARBON	10K	5%	1/4W	
R914	1-249-437-11	CARBON	47K	5%	1/4W	
R915	1-249-441-11	CARBON	100K	5%	1/4W	
R916	1-249-441-11	CARBON	100K	5%	1/4W	
R917	1-247-903-00	CARBON	1M	5%	1/4W	
R918	1-249-431-11	CARBON	15K	5%	1/4W	
R920	1-249-441-11	CARBON	100K	5%	1/4W	

MAIN

Ref. No.	Part No.	Description				Remark
R930	1-249-429-11	CARBON	10K	5%	1/4W	
R931	1-249-429-11	CARBON	10K	5%	1/4W	
R932	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R933	1-247-895-00	CARBON	470K	5%	1/4W	
R935	1-249-437-11	CARBON	47K	5%	1/4W	
R938	1-247-807-31	CARBON	100	5%	1/4W	
R940	1-249-429-11	CARBON	10K	5%	1/4W	
R941	1-249-429-11	CARBON	10K	5%	1/4W	
R942	1-249-429-11	CARBON	10K	5%	1/4W	
R945	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R951	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R952	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R953	1-249-437-11	CARBON	47K	5%	1/4W	
R955	1-249-441-11	CARBON	100K	5%	1/4W	
R956	1-247-895-00	CARBON	470K	5%	1/4W	
R957	1-247-883-00	CARBON	150K	5%	1/4W	
R958	1-249-433-11	CARBON	22K	5%	1/4W	
R959	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R960	1-249-429-11	CARBON	10K	5%	1/4W	
R961	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R962	1-249-441-11	CARBON	100K	5%	1/4W	
R963	1-249-429-11	CARBON	10K	5%	1/4W	
R964	1-249-437-11	CARBON	47K	5%	1/4W	
R965	1-249-441-11	CARBON	100K	5%	1/4W	
R966	1-249-441-11	CARBON	100K	5%	1/4W	
R967	1-247-903-00	CARBON	1M	5%	1/4W	
R968	1-249-431-11	CARBON	15K	5%	1/4W	
R970	1-247-903-00	CARBON	1M	5%	1/4W	
R1001	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R1002	1-247-815-91	CARBON	220	5%	1/4W	
R1002	1-249-409-11	CARBON	220	5%	1/4W	F
R1003	1-249-417-11	CARBON	1K	5%	1/4W	F
R1007	1-249-417-11	CARBON	1K	5%	1/4W	F
R1020	1-249-409-11	CARBON	220	5%	1/4W	F
R1021	1-249-409-11	CARBON	220	5%	1/4W	F
R1022	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R1023	1-249-417-11	CARBON	1K	5%	1/4W	F
R1220	1-249-389-11	CARBON	4.7	5%	1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)				
R1221	1-249-389-11	CARBON	4.7	5%	1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)				
R1222	1-260-091-11	CARBON	220	5%	1/2W	
R1223	1-260-091-11	CARBON	220	5%	1/2W	
⚠R1226	1-215-891-11	METAL OXIDE	680	5%	2W	F
		(H771:E, AUS, EA, MX, MY, HK, SP, AR, TH)				
⚠R1226	1-216-454-11	METAL OXIDE	390	5%	2W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)				
R1231	1-249-437-11	CARBON	47K	5%	1/4W	
R1233	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R1234	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R1235	1-249-435-11	CARBON	33K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R1236	1-249-441-11	CARBON	100K	5%	1/4W	
R1237	1-249-429-11	CARBON	10K	5%	1/4W	
R1238	1-249-417-11	CARBON	1K	5%	1/4W	
R1240	1-249-438-11	CARBON	56K	5%	1/4W	
R1241	1-249-397-11	CARBON	22	5%	1/4W	F
R1245	1-249-433-11	CARBON	22K	5%	1/4W	
R1248	1-249-389-11	CARBON	4.7	5%	1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)				
R1249	1-249-389-11	CARBON	4.7	5%	1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)				
R1250	1-249-429-11	CARBON	10K	5%	1/4W	
R1264	1-249-429-11	CARBON	10K	5%	1/4W	
R1265	1-249-429-11	CARBON	10K	5%	1/4W	
R1266	1-249-429-11	CARBON	10K	5%	1/4W	
R1267	1-249-429-11	CARBON	10K	5%	1/4W	
R1270	1-249-389-11	CARBON	4.7	5%	1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)				
R1271	1-249-389-11	CARBON	4.7	5%	1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)				
R1272	1-260-091-11	CARBON	220	5%	1/2W	
R1273	1-260-091-11	CARBON	220	5%	1/2W	
R1281	1-249-437-11	CARBON	47K	5%	1/4W	
R1290	1-249-437-11	CARBON	47K	5%	1/4W	
R1295	1-249-433-11	CARBON	22K	5%	1/4W	
R1296	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R1298	1-249-389-11	CARBON	4.7	5%	1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)				
R1299	1-249-389-11	CARBON	4.7	5%	1/4W	F
		(H771:US, CND, AEP, UK, G, IT, EE, CIS/H771D)				
R1303	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R1304	1-249-425-11	CARBON	4.7K	5%	1/4W	F
⚠R1601	1-219-139-11	FUSIBLE	0.68	5%	1/4W	F
⚠R1602	1-219-136-11	FUSIBLE	0.22	5%	1/4W	F
⚠R1603	1-219-136-11	FUSIBLE	0.22	5%	1/4W	F
		< VARIABLE RESISTOR >				
RV301	1-238-600-11	RES, ADJ, CARBON 10K				
RV351	1-238-600-11	RES, ADJ, CARBON 10K				
		< RELAY >				
RY1201	1-515-920-11	RELAY (24V)				
		< TERMINAL >				
TM1201	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SPEAKER)				
TM1202	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SURROUND SPEAKER) (H771:US, CND, E, AUS, EA, MX, MY, HK, SP, AR, TH)				
		< VIBRATOR >				
X701	1-579-175-11	VIBRATOR, CERAMIC (10MHz)				

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
X702	1-567-098-41	VIBRATOR, CRYSTAL (32kHz)			
**********					
*	A-2007-435-A	MD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C301	1-162-289-31	CERAMIC	390PF	10%	50V
C302	1-126-968-11	ELECT	100uF	20%	6.3V
C303	1-162-282-31	CERAMIC	100PF	10%	50V
C304	1-107-715-11	ELECT	22uF	20%	16V
C304	1-130-483-00	MYLAR	0.01uF	5%	50V
C305	1-107-715-11	ELECT	22uF	20%	16V
C311	1-162-289-31	CERAMIC	390PF	10%	50V
C313	1-162-282-31	CERAMIC	100PF	10%	50V
C314	1-130-487-00	MYLAR	0.022uF	5%	50V
C315	1-126-233-11	ELECT	22uF	20%	50V
C331	1-137-427-11	FILM	120PF	5%	50V
C332	1-162-288-31	CERAMIC	330PF	10%	50V
C333	1-162-209-31	CERAMIC	27PF	5%	50V
C401	1-162-289-31	CERAMIC	390PF	10%	50V
C402	1-126-968-11	ELECT	100uF	20%	6.3V
C403	1-162-282-31	CERAMIC	100PF	10%	50V
C404	1-130-483-00	MYLAR	0.01uF	5%	50V
C411	1-162-289-31	CERAMIC	390PF	10%	50V
C413	1-162-282-31	CERAMIC	100PF	10%	50V
C414	1-130-487-00	MYLAR	0.022uF	5%	50V
C415	1-126-233-11	ELECT	22uF	20%	50V
C431	1-137-427-11	FILM	120PF	5%	50V
C432	1-162-288-31	CERAMIC	330PF	10%	50V
C433	1-162-209-31	CERAMIC	27PF	5%	50V
C601	1-126-157-11	ELECT	10uF	20%	16V
C602	1-126-157-11	ELECT	10uF	20%	16V
C611	1-124-907-11	ELECT	10uF	20%	50V
C612	1-124-907-11	ELECT	10uF	20%	50V
C621	1-137-150-11	FILM	0.01uF	5%	100V
C622	1-126-961-11	ELECT	2.2uF	20%	50V
C623	1-136-155-00	FILM	0.015uF	5%	50V
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V
C627	1-124-903-11	ELECT	1uF	20%	50V
C628	1-136-153-00	FILM	0.01uF	5%	50V
C642	1-104-664-11	ELECT	47uF	20%	16V
C651	1-161-494-00	CERAMIC	0.022uF		25V
		< CONNECTOR >			
* CN601	1-568-864-11	SOCKET, CONNECTOR 21P			
* CN602	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
* CN651	1-564-521-11	PLUG, CONNECTOR 6P			

Ref. No.	Part No.	Description				Remark
		< IC >				
IC601	8-759-710-59	IC NJM4580D-D				
IC602	8-759-143-54	IC uPC1330HA				
IC611	8-759-710-59	IC NJM4580D-D				
		< COIL >				
L331	1-410-780-11	INDUCTOR	27mH			
L431	1-410-780-11	INDUCTOR	27mH			
		< TRANSISTOR >				
Q621	8-729-142-46	TRANSISTOR	2SC2001-LK			
Q622	8-729-142-46	TRANSISTOR	2SC2001-LK			
Q623	8-729-801-93	TRANSISTOR	2SD1387			
Q651	8-729-900-65	TRANSISTOR	DTA144ES			
		< RESISTOR >				
R301	1-247-881-00	CARBON	120K	5%	1/4W	
R302	1-249-409-11	CARBON	220	5%	1/4W	F
R303	1-249-433-11	CARBON	22K	5%	1/4W	
R304	1-247-889-00	CARBON	270K	5%	1/4W	
R305	1-247-858-11	CARBON	13K	5%	1/4W	
R311	1-247-881-00	CARBON	120K	5%	1/4W	
R312	1-247-807-31	CARBON	100	5%	1/4W	
R314	1-247-882-11	CARBON	130K	5%	1/4W	
R315	1-247-850-11	CARBON	6.2K	5%	1/4W	
R331	1-249-430-11	CARBON	12K	5%	1/4W	
R401	1-247-881-00	CARBON	120K	5%	1/4W	
R402	1-249-409-11	CARBON	220	5%	1/4W	F
R403	1-249-433-11	CARBON	22K	5%	1/4W	
R404	1-247-889-00	CARBON	270K	5%	1/4W	
R405	1-247-858-11	CARBON	13K	5%	1/4W	
R411	1-247-881-00	CARBON	120K	5%	1/4W	
R412	1-247-807-31	CARBON	100	5%	1/4W	
R414	1-247-882-11	CARBON	130K	5%	1/4W	
R415	1-247-850-11	CARBON	6.2K	5%	1/4W	
R431	1-249-430-11	CARBON	12K	5%	1/4W	
R601	1-249-409-11	CARBON	220	5%	1/4W	F
R602	1-249-409-11	CARBON	220	5%	1/4W	F
R608	1-249-409-11	CARBON	220	5%	1/4W	F
R609	1-249-433-11	CARBON	22K	5%	1/4W	
R611	1-249-409-11	CARBON	220	5%	1/4W	F
R612	1-249-409-11	CARBON	220	5%	1/4W	F
⚠R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
⚠R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
R623	1-249-432-11	CARBON	18K	5%	1/4W	
R624	1-249-432-11	CARBON	18K	5%	1/4W	
R625	1-249-429-11	CARBON	10K	5%	1/4W	
R651	1-247-856-00	CARBON	11K	5%	1/4W	
R652	1-247-856-00	CARBON	11K	5%	1/4W	
R653	1-249-441-11	CARBON	100K	5%	1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

MD | MOTOR (SLIDE) | MOTOR (TURN) | PANEL

Ref.No.	Part No.	Description				Remark
		< VARIABLE RESISTOR >				
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV341	1-238-551-11	RES, ADJ, CARBON 220K				
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K				
RV441	1-238-551-11	RES, ADJ, CARBON 220K				
RV651	1-238-599-11	RES, ADJ, CARBON 4.7K				
RV652	1-238-599-11	RES, ADJ, CARBON 4.7K				
		< TRANSFORMER >				
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION				
**********						
*	1-658-578-12	MOTOR (SLIDE) BOARD				
		**********				
		< CAPACITOR >				
C801	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C804	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C805	1-126-964-11	ELECT	10uF	20%	50V	
		< CONNECTOR >				
* CN801	1-568-947-11	PIN, CONNECTOR 9P				
		< DIODE >				
D801	8-719-010-43	DIODE UZ-5.6BSC-TA				
		< IC >				
IC801	8-759-274-09	IC BA6286N				
		< RESISTOR >				
R801	1-249-401-11	CARBON	47	5%	1/4W F	
		< SWITCH >				
S801	1-762-527-11	SWITCH, ROTARY (OPEN/CLOSE DET)				
**********						
*	1-658-577-11	MOTOR (TURN) BOARD				
		**********				
		< CAPACITOR >				
C701	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C702	1-126-964-11	ELECT	10uF	20%	50V	
C705	1-162-306-11	CERAMIC	0.01uF	30%	16V	

Ref.No.	Part No.	Description				Remark
		< CONNECTOR >				
CN703	1-750-413-11	CONNECTOR, FFC/FPC 8P				
CN704	1-506-469-11	PIN, CONNECTOR 4P				
		< DIODE >				
D701	8-719-010-23	DIODE UZ-3.6BSB				
		< IC >				
IC701	8-759-633-65	IC M54641L				
		< RESISTOR >				
R706	1-249-411-11	CARBON	330	5%	1/4W	
**********						
*	A-4389-153-A	PANEL BOARD, COMPLETE				
		**********				
		(H771:US, CND, AEP, UK, G, IT, EE/H771D)				
*	A-4389-154-A	PANEL BOARD, COMPLETE				
		**********				
		(H771:E3, EA, MY, HK, SP)				
*	A-4389-416-A	PANEL BOARD, COMPLETE				
		**********				
		(H771:E2, AUS, CIS, MX, AR)				
*	A-4389-770-A	PANEL BOARD, COMPLETE (H771:TH)				
		**********				
*	4-932-810-11	CUSHION (FL)				
*	4-971-014-11	HOLDER, FL TUBE				
		< CAPACITOR >				
C500	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C501	1-124-589-11	ELECT	47uF	20%	16V	
C502	1-162-282-31	CERAMIC	100PF	10%	50V	
C504	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C505	1-124-589-11	ELECT	47uF	20%	16V	
C510	1-162-286-31	CERAMIC	220PF	10%	50V	
C511	1-162-286-31	CERAMIC	220PF	10%	50V	
C512	1-162-286-31	CERAMIC	220PF	10%	50V	
C513	1-162-286-31	CERAMIC	220PF	10%	50V	
C514	1-162-286-31	CERAMIC	220PF	10%	50V	
C515	1-162-286-31	CERAMIC	220PF	10%	50V	
C516	1-162-286-31	CERAMIC	220PF	10%	50V	
C517	1-162-286-31	CERAMIC	220PF	10%	50V	
C518	1-162-286-31	CERAMIC	220PF	10%	50V	
C519	1-162-286-31	CERAMIC	220PF	10%	50V	
C520	1-162-286-31	CERAMIC	220PF	10%	50V	
C521	1-162-286-31	CERAMIC	220PF	10%	50V	
C522	1-162-286-31	CERAMIC	220PF	10%	50V	

Ref.No.	Part No.	Description				Remark
C523	1-162-286-31	CERAMIC	220PF	10%	50V	
C539	1-162-293-31	CERAMIC	820PF	10%	50V	
C540	1-124-464-11	ELECT	0.22uF	20%	50V	
C641	1-124-589-11	ELECT	47uF	20%	16V	
		< CONNECTOR >				
* CN500	1-568-856-11	SOCKET, CONNECTOR 13P				
		< DIODE >				
D500	8-719-032-87	DIODE	SEL5420E-TP15 (TUNER/BAND)			
D501	8-719-033-06	DIODE	SEL5920A (CLIP C)			
D503	8-719-033-06	DIODE	SEL5920A (CLIP B)			
D505	8-719-033-06	DIODE	SEL5920A (CLIP A)			
D506	8-719-033-06	DIODE	SEL5920A (GROOVE)			
D507	8-719-812-44	DIODE	TLO124 (EFFECT ON/OFF)			
D523	8-719-032-87	DIODE	SEL5420E-TP15 (◁) (DECK B)			
D524	8-719-032-87	DIODE	SEL5420E-TP15 (▷) (DECK B)			
D525	8-719-812-44	DIODE	TLO124 (● REC)			
D526	8-719-057-97	DIODE	SEL5923A-TP15 (▮▮ PAUSE)			
D527	8-719-032-87	DIODE	SEL5420E-TP15 (◁) (DECK A)			
D528	8-719-032-87	DIODE	SEL5420E-TP15 (▷) (DECK A)			
D529	8-719-057-97	DIODE	SEL5923A-TP15 (CD)			
D531	8-719-057-97	DIODE	SEL5923A-TP15 (1/ALL DISCS)			
D533	8-719-057-97	DIODE	SEL5923A-TP15 (PLAY MODE)			
D535	8-719-057-97	DIODE	SEL5923A-TP15 (REPEAT)			
D537	8-719-057-97	DIODE	SEL5923A-TP15 (EDIT)			
D539	8-719-057-97	DIODE	SEL5923A-TP15 (TUNER)			
D541	8-719-057-97	DIODE	SEL5923A-TP15 (TUNING MODE)			
D543	8-719-057-97	DIODE	SEL5923A-TP15 (TUNER MEMORY)			
D545	8-719-057-97	DIODE	SEL5923A-TP15 (STEREO)			
D547	8-719-057-97	DIODE	SEL5923A-TP15 (MONO)			
D549	8-719-057-97	DIODE	SEL5923A-TP15 (TIMER)			
D551	8-719-057-97	DIODE	SEL5923A-TP15 (CLOCK SET)			
D553	8-719-057-97	DIODE	SEL5923A-TP15 (SET)			
D555	8-719-057-97	DIODE	SEL5923A-TP15 (SELECT)			
D557	8-719-057-97	DIODE	SEL5923A-TP15 (SLEEP)			
D563	8-719-987-63	DIODE	1N4148M			
		< FLUORESCENT INDICATOR >				
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT				
		< IC >				
IC500	8-759-375-43	IC	ASD0204-012-3BA			
IC501	8-759-332-18	IC	GP1U27XB (Ⓡ)			
		< TRANSISTOR >				
Q500	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q501	8-729-140-04	TRANSISTOR	2SB1116A-L			
Q502	8-729-140-04	TRANSISTOR	2SB1116A-L			
Q503	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q504	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q505	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q506	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q514	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q515	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q516	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q517	8-729-142-25	TRANSISTOR	2SD1020-HFE			
Q518	8-729-142-25	TRANSISTOR	2SD1020-HFE			
Q519	8-729-142-25	TRANSISTOR	2SD1020-HFE			
Q523	8-729-900-74	TRANSISTOR	DTC143TS			
		< RESISTOR >				
R500	1-249-429-11	CARBON	10K	5%	1/4W	
R501	1-247-903-00	CARBON	1M	5%	1/4W	
R502	1-249-429-11	CARBON	10K	5%	1/4W	
R503	1-249-429-11	CARBON	10K	5%	1/4W	
R504	1-249-429-11	CARBON	10K	5%	1/4W	
R505	1-249-429-11	CARBON	10K	5%	1/4W	
R506	1-249-429-11	CARBON	10K	5%	1/4W	
R507	1-249-429-11	CARBON	10K	5%	1/4W	
R508	1-249-429-11	CARBON	10K	5%	1/4W	
R509	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R510	1-247-807-31	CARBON	100	5%	1/4W	
R511	1-247-807-31	CARBON	100	5%	1/4W	
R512	1-247-807-31	CARBON	100	5%	1/4W	
R513	1-247-807-31	CARBON	100	5%	1/4W	
R514	1-247-807-31	CARBON	100	5%	1/4W	
R515	1-247-807-31	CARBON	100	5%	1/4W	
R516	1-249-441-11	CARBON	100K	5%	1/4W	
R517	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R526	1-249-415-11	CARBON	680	5%	1/4W	F
R529	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R530	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R531	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R532	1-249-431-11	CARBON	15K	5%	1/4W	
R533	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R534	1-249-401-11	CARBON	47	5%	1/4W	F
R535	1-249-403-11	CARBON	68	5%	1/4W	F
R536	1-247-807-31	CARBON	100	5%	1/4W	
R537	1-249-407-11	CARBON	150	5%	1/4W	F
R538	1-249-407-11	CARBON	150	5%	1/4W	F
R539	1-249-409-11	CARBON	220	5%	1/4W	F
R540	1-249-411-11	CARBON	330	5%	1/4W	
R547	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R548	1-249-401-11	CARBON	47	5%	1/4W	F
R549	1-249-403-11	CARBON	68	5%	1/4W	F
R550	1-247-807-31	CARBON	100	5%	1/4W	
R551	1-249-407-11	CARBON	150	5%	1/4W	F
R552	1-249-407-11	CARBON	150	5%	1/4W	F

PANEL

Ref. No.	Part No.	Description				Remark
R553	1-249-409-11	CARBON	220	5%	1/4W	F
R554	1-249-411-11	CARBON	330	5%	1/4W	
R555	1-249-413-11	CARBON	470	5%	1/4W	F
R556	1-249-415-11	CARBON	680	5%	1/4W	F
R557	1-249-417-11	CARBON	1K	5%	1/4W	F
R558	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R559	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R560	1-249-423-11	CARBON	10K	5%	1/4W	F
R562	1-249-431-11	CARBON	15K	5%	1/4W	
R563	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R564	1-249-401-11	CARBON	47	5%	1/4W	F
R565	1-249-413-11	CARBON	470	5%	1/4W	F
R566	1-249-409-11	CARBON	220	5%	1/4W	F
R567	1-249-411-11	CARBON	330	5%	1/4W	
R568	1-249-413-11	CARBON	470	5%	1/4W	F
R569	1-249-415-11	CARBON	680	5%	1/4W	F
R570	1-249-417-11	CARBON	1K	5%	1/4W	F
R571	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R572	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R573	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R574	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R575	1-249-437-11	CARBON	47K	5%	1/4W	
R576	1-249-429-11	CARBON	10K	5%	1/4W	
R577	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R578	1-249-429-11	CARBON	10K	5%	1/4W	
R579	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R580	1-247-807-31	CARBON	100	5%	1/4W	
R581	1-249-407-11	CARBON	150	5%	1/4W	F
R583	1-249-407-11	CARBON	150	5%	1/4W	F
R585	1-249-407-11	CARBON	150	5%	1/4W	F
R586	1-247-807-31	CARBON	100	5%	1/4W	
R587	1-249-407-11	CARBON	150	5%	1/4W	F
R610	1-247-807-31	CARBON	100	5%	1/4W	
R611	1-247-807-31	CARBON	100	5%	1/4W	
R612	1-249-407-11	CARBON	150	5%	1/4W	F
R613	1-249-407-11	CARBON	150	5%	1/4W	F
R614	1-247-807-31	CARBON	100	5%	1/4W	
R615	1-247-807-31	CARBON	100	5%	1/4W	
R616	1-247-807-31	CARBON	100	5%	1/4W	
R617	1-247-807-31	CARBON	100	5%	1/4W	
R618	1-247-807-31	CARBON	100	5%	1/4W	
R619	1-247-807-31	CARBON	100	5%	1/4W	
R620	1-247-807-31	CARBON	100	5%	1/4W	
R621	1-247-807-31	CARBON	100	5%	1/4W	
R622	1-247-807-31	CARBON	100	5%	1/4W	
R623	1-247-807-31	CARBON	100	5%	1/4W	
R624	1-247-807-31	CARBON	100	5%	1/4W	
R625	1-247-807-31	CARBON	100	5%	1/4W	
R626	1-247-807-31	CARBON	100	5%	1/4W	
R627	1-247-807-31	CARBON	100	5%	1/4W	
R628	1-247-807-31	CARBON	100	5%	1/4W	
R629	1-247-807-31	CARBON	100	5%	1/4W	
R630	1-247-807-31	CARBON	100	5%	1/4W	
R634	1-247-899-11	CARBON	680K	5%	1/4W	
R646	1-249-417-11	CARBON	1K	5%	1/4W	F
R647	1-249-417-11	CARBON	1K	5%	1/4W	F
R648	1-249-417-11	CARBON	1K	5%	1/4W	F
R649	1-249-401-11	CARBON	47	5%	1/4W	F
R650	1-249-429-11	CARBON	10K	5%	1/4W	
R651	1-249-429-11	CARBON	10K	5%	1/4W	
R652	1-249-429-11	CARBON	10K	5%	1/4W	
R662	1-249-437-11	CARBON	47K	5%	1/4W	
R663	1-247-895-00	CARBON	470K	5%	1/4W	
R664	1-249-441-11	CARBON	100K	5%	1/4W	

< SWITCH >

S509	1-554-303-21	SWITCH, TACTILE (TIMER)
S512	1-554-303-21	SWITCH, TACTILE (MULTI FUNCTION CONTROL, 1)
S513	1-554-303-21	SWITCH, TACTILE (MULTI FUNCTION CONTROL, 2)
S514	1-554-303-21	SWITCH, TACTILE (MULTI FUNCTION CONTROL, 3)
S515	1-554-303-21	SWITCH, TACTILE (MULTI FUNCTION CONTROL, 4)
S517	1-554-303-21	SWITCH, TACTILE (DISPLAY)
S519	1-554-303-21	SWITCH, TACTILE (CLIP PLAY)
S520	1-554-303-21	SWITCH, TACTILE (CLIP ERASE)
S521	1-554-303-21	SWITCH, TACTILE (CLIP A)
S522	1-554-303-21	SWITCH, TACTILE (CLIP B)
S523	1-554-303-21	SWITCH, TACTILE (CLIP C)
S530	1-554-303-21	SWITCH, TACTILE (SURROUND)
S531	1-554-303-21	SWITCH, TACTILE (MENU 1)
S532	1-554-303-21	SWITCH, TACTILE (MENU 2)
S533	1-554-303-21	SWITCH, TACTILE (MENU 3)
S534	1-554-303-21	SWITCH, TACTILE (P FILE)
S535	1-554-303-21	SWITCH, TACTILE (EFFECT ON/OFF)
S536	1-554-303-21	SWITCH, TACTILE (▷) (DECK B)
S537	1-554-303-21	SWITCH, TACTILE (◁) (DECK B)
S538	1-554-303-21	SWITCH, TACTILE (▶▶) (DECK B)
S539	1-554-303-21	SWITCH, TACTILE (■) (DECK B)
S540	1-554-303-21	SWITCH, TACTILE (◀◀) (DECK B)
S541	1-554-303-21	SWITCH, TACTILE (▮▮ PAUSE)
S542	1-554-303-21	SWITCH, TACTILE (● REC)
S544	1-554-303-21	SWITCH, TACTILE (CD SYNCHRO)
S545	1-554-303-21	SWITCH, TACTILE (HIGH SPEED DUBBING)
S551	1-554-303-21	SWITCH, TACTILE (TUNER/BAND)
S552	1-554-303-21	SWITCH, TACTILE (FUNCTION)
S553	1-554-303-21	SWITCH, TACTILE (GROOVE)
S554	1-554-303-21	SWITCH, TACTILE (DIRECTION)

Ref.No.	Part No.	Description			Remark
S555	1-554-303-21	SWITCH, TACTILE (DOLBY NR)			
S556	1-554-303-21	SWITCH, TACTILE (▶▶) (DECK A)			
S557	1-554-303-21	SWITCH, TACTILE (■) (DECK A)			
S558	1-554-303-21	SWITCH, TACTILE (◀◀) (DECK A)			
S559	1-554-303-21	SWITCH, TACTILE (▷) (DECK A)			
S560	1-554-303-21	SWITCH, TACTILE (◁) (DECK A)			
		< VIBRATOR >			
X500	1-760-489-11	VIBRATOR, CERAMIC (5MHz)			
**********					
*	A-4377-454-A	POLAR BOARD, COMPLETE (H771:CIS)			
		**********			
		< CAPACITOR >			
C1701	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C1702	1-130-014-00	FILM	470PF	5% 50V	
C1703	1-124-902-00	ELECT	0.47uF	20% 50V	
C1704	1-124-902-00	ELECT	0.47uF	20% 50V	
C1705	1-164-098-11	CERAMIC	0.047uF	12V	
C1706	1-124-903-11	ELECT	1uF	20% 50V	
C1707	1-162-288-31	CERAMIC	330PF	10% 50V	
C1710	1-137-364-11	FILM	0.001uF	5% 50V	
C1711	1-137-364-11	FILM	0.001uF	5% 50V	
C1712	1-130-736-11	FILM	0.01uF	5% 50V	
C1713	1-130-736-11	FILM	0.01uF	5% 50V	
C1714	1-124-903-11	ELECT	1uF	20% 50V	
C1715	1-124-903-11	ELECT	1uF	20% 50V	
C1716	1-124-903-11	ELECT	1uF	20% 50V	
C1719	1-104-664-11	ELECT	47uF	20% 16V	
C1720	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C1723	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C1724	1-162-306-11	CERAMIC	0.01uF	30% 16V	
C1725	1-104-664-11	ELECT	47uF	20% 16V	
C1726	1-124-903-11	ELECT	1uF	20% 50V	
C1727	1-124-903-11	ELECT	1uF	20% 50V	
C1728	1-104-663-11	ELECT	33uF	20% 16V	
		< CONNECTOR >			
* CN1701	1-568-832-11	SOCKET, CONNECTOR 13P			
		< TRIMMER >			
CT1701	1-141-260-00	CAP, TRIMMER 50PF			
		< DIODE >			
D1701	8-719-987-63	DIODE 1N4148M			
D1703	8-719-987-63	DIODE 1N4148M			
D1704	8-719-987-63	DIODE 1N4148M			
D1705	8-719-987-63	DIODE 1N4148M			

Ref.No.	Part No.	Description			Remark
		< IC >			
IC1701	8-759-063-04	IC IR3R42			
IC1703	8-759-140-53	IC uPD4053BC			
		< COIL >			
L1701	1-409-497-11	COIL (FILTER)			
		< TRANSISTOR >			
Q1701	8-729-900-61	TRANSISTOR DTA114ES			
Q1702	8-729-900-80	TRANSISTOR DTC114ES			
Q1704	8-729-900-80	TRANSISTOR DTC114ES			
		< RESISTOR >			
R1701	1-249-433-11	CARBON	22K	5% 1/4W	
R1702	1-249-435-11	CARBON	33K	5% 1/4W	
R1703	1-249-427-11	CARBON	6.8K	5% 1/4W	F
R1704	1-247-858-11	CARBON	13K	5% 1/4W	
R1705	1-249-417-11	CARBON	1K	5% 1/4W	F
R1706	1-249-417-11	CARBON	1K	5% 1/4W	F
R1707	1-249-441-11	CARBON	100K	5% 1/4W	
R1708	1-249-440-11	CARBON	82K	5% 1/4W	
R1709	1-249-437-11	CARBON	47K	5% 1/4W	
R1710	1-249-429-11	CARBON	10K	5% 1/4W	
R1711	1-249-429-11	CARBON	10K	5% 1/4W	
R1714	1-249-426-11	CARBON	5.6K	5% 1/4W	
R1715	1-249-426-11	CARBON	5.6K	5% 1/4W	
R1716	1-249-441-11	CARBON	100K	5% 1/4W	
R1717	1-249-441-11	CARBON	100K	5% 1/4W	
R1718	1-249-429-11	CARBON	10K	5% 1/4W	
R1719	1-249-429-11	CARBON	10K	5% 1/4W	
R1721	1-249-434-11	CARBON	27K	5% 1/4W	
R1722	1-249-441-11	CARBON	100K	5% 1/4W	
		< VARIABLE RESISTOR >			
RV1701	1-238-600-11	RES, ADJ, CARBON 10K			
RV1702	1-238-599-11	RES, ADJ, CARBON 4.7K			
		< TEST PIN >			
* TP1701	1-560-061-00	PIN, CONNECTOR 3P			
* TP1702	1-560-061-00	PIN, CONNECTOR 3P			
**********					

POWER AMPLIFIER | SENSOR

Ref.No.	Part No.	Description			Remark
*	A-4389-174-A	POWER AMPLIFIER BOARD, COMPLETE			
		**********			
					(H771:AEP, UK, G, IT, EE)
*	A-4389-179-A	POWER AMPLIFIER BOARD, COMPLETE			
		**********			
					(H771:E, AUS, EA, MX, MY, HK, SP, AR)
*	A-4389-415-A	POWER AMPLIFIER BOARD, COMPLETE			
		**********			
					(H771:CIS)
*	A-4389-782-A	POWER AMPLIFIER BOARD, COMPLETE			(H771:TH)
		**********			
*	A-4389-932-A	POWER AMPLIFIER BOARD, COMPLETE			
		**********			
					(H771:US, CND/H771D)
		< CAPACITOR >			
C1201	1-126-963-11	ELECT	4.7uF	20%	50V
C1202	1-162-288-31	CERAMIC	330PF	10%	50V
C1203	1-162-286-31	CERAMIC	220PF	10%	50V
C1204	1-126-967-11	ELECT	47uF	20%	10V
C1205	1-126-967-11	ELECT	47uF	20%	50V
C1206	1-126-968-11	ELECT	100uF	20%	50V
C1207	1-136-165-00	FILM	0.1uF	5%	50V
C1208	1-126-965-11	ELECT	22uF	20%	50V
C1210	1-136-495-11	FILM	0.068uF	5%	50V
C1211	1-136-495-11	FILM	0.068uF	5%	50V
C1220	1-126-925-11	ELECT	470uF	20%	10V
C1225	1-162-284-31	CERAMIC	150PF	10%	50V
C1251	1-126-963-11	ELECT	4.7uF	20%	50V
C1252	1-162-288-31	CERAMIC	330PF	10%	50V
C1253	1-162-286-31	CERAMIC	220PF	10%	50V
C1254	1-126-967-11	ELECT	47uF	20%	10V
C1255	1-126-967-11	ELECT	47uF	20%	50V
C1256	1-126-968-11	ELECT	100uF	20%	50V
C1257	1-136-165-00	FILM	0.1uF	5%	50V
C1260	1-136-495-11	FILM	0.068uF	5%	50V
C1261	1-136-495-11	FILM	0.068uF	5%	50V
		< DIODE >			
D1201	8-719-987-63	DIODE	1N4148M		
D1202	8-719-987-63	DIODE	1N4148M		
D1251	8-719-987-63	DIODE	1N4148M		
		< IC >			
IC1201	8-749-900-24	IC	STK-4162MK2		(H771:US, CND/H771D)
IC1201	8-749-900-96	IC	STK-4142MK2		(H771:AEP, UK, G, IT, EE, CIS)
IC1201	8-749-941-52	IC	STK-4152II		(H771:E, AUS, EA, MX, MY, HK, SP, AR, TH)

Ref.No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q1201	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
Q1251	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
		< RESISTOR >			
R1201	1-249-417-11	CARBON	1K	5% 1/4W	F
R1202	1-249-437-11	CARBON	47K	5% 1/4W	
R1203	1-249-415-11	CARBON	680	5% 1/4W	F
R1204	1-249-437-11	CARBON	47K	5% 1/4W	
R1205	1-260-103-11	CARBON	2.2K	5% 1/2W	F
R1207	1-260-103-11	CARBON	2.2K	5% 1/2W	F
⚠R1209	1-212-881-11	FUSIBLE	100	5% 1/4W	F
⚠R1210	1-208-602-11	WIREWOUND	0.22	10% 2W	F
R1211	1-249-417-11	CARBON	1K	5% 1/4W	F
R1212	1-249-431-11	CARBON	15K	5% 1/4W	
R1213	1-249-441-11	CARBON	100K	5% 1/4W	
R1214	1-260-099-11	CARBON	1K	5% 1/2W	F
R1217	1-260-099-11	CARBON	1K	5% 1/2W	F
R1218	1-260-076-11	CARBON	10	5% 1/2W	F
R1222	1-260-091-11	CARBON	220	5% 1/2W	F
R1223	1-260-091-11	CARBON	220	5% 1/2W	F
R1228	1-247-881-00	CARBON	120K	5% 1/4W	
R1230	1-249-429-11	CARBON	10K	5% 1/4W	
R1242	1-249-429-11	CARBON	10K	5% 1/4W	
⚠R1243	1-217-637-00	FUSIBLE	1	5% 1/4W	F
R1251	1-249-417-11	CARBON	1K	5% 1/4W	F
R1252	1-249-437-11	CARBON	47K	5% 1/4W	
R1253	1-249-415-11	CARBON	680	5% 1/4W	F
R1254	1-249-437-11	CARBON	47K	5% 1/4W	
R1255	1-260-103-11	CARBON	2.2K	5% 1/2W	F
R1257	1-260-103-11	CARBON	2.2K	5% 1/2W	F
⚠R1259	1-212-881-11	FUSIBLE	100	5% 1/4W	F
⚠R1260	1-208-602-11	WIREWOUND	0.22	10% 2W	F
R1261	1-249-417-11	CARBON	1K	5% 1/4W	F
R1262	1-249-431-11	CARBON	15K	5% 1/4W	
R1263	1-249-441-11	CARBON	100K	5% 1/4W	
R1268	1-260-076-11	CARBON	10	5% 1/2W	F
R1272	1-260-091-11	CARBON	220	5% 1/2W	F
R1273	1-260-091-11	CARBON	220	5% 1/2W	F
**********					
*	1-658-576-12	SENSOR BOARD			
		**********			
		< IC >			
IC702	8-749-924-18	IC	PHOTO INTERRUPTER RPI-1391		
IC703	8-749-924-30	IC	PHOTO REFLECTOR GP2S28		

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref.No.	Part No.	Description				Remark
		< RESISTOR >				
R701	1-249-416-11	CARBON	820	5%	1/4W	F
R702	1-249-407-11	CARBON	150	5%	1/4W	F
**********						
*	A-4303-514-A	TCB BOARD, COMPLETE (H771:AEP,UK)				
		**********				
*	A-4303-515-A	TCB BOARD, COMPLETE (H771:IT,G)				
		**********				
*	A-4303-516-A	TCB BOARD, COMPLETE (H771:EE)				
		**********				
		< CAPACITOR >				
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C2	1-126-967-11	ELECT	47uF	20%	16V	
C3	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C5	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C6	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C7	1-101-004-00	CERAMIC	0.01uF		50V	(H771:AEP,UK,EE)
C8	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C9	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C10	1-162-306-11	CERAMIC CHIP	0.01uF		16V	(H771:EE)
C10	1-163-031-11	CERAMIC CHIP	0.01uF		50V	(H771:AEP,UK,IT,G)
C11	1-216-295-11	METAL CHIP	0	5%	1/10W	(H771:IT,G)
C16	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C19	1-163-249-11	CERAMIC CHIP	82PF	5%	50V	(H771:AEP,UK,EE)
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C22	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	
C26	1-126-967-11	ELECT	47uF	20%	16V	
C28	1-126-967-11	ELECT	47uF	20%	16V	
C29	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C30	1-124-925-11	ELECT	2.2uF	20%	100V	
C31	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C32	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C33	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C34	1-163-091-00	CERAMIC CHIP	8PF		50V	(H771:IT,G)
C34	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	(H771:AEP,UK,EE)
C35	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C40	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C41	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C42	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C43	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C44	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C45	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
C46	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	
C47	1-126-967-11	ELECT	47uF	20%	16V	
C48	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C49	1-124-902-00	ELECT	0.47uF	20%	50V	
C50	1-124-903-11	ELECT	1.0uF	20%	50V	
C51	1-124-903-11	ELECT	1.0uF	20%	50V	
C52	1-126-964-11	ELECT	10uF	20%	50V	
C53	1-126-964-11	ELECT	10uF	20%	50V	
C54	1-126-157-11	ELECT	10uF	20%	16V	
C55	1-126-157-11	ELECT	10uF	20%	16V	
C56	1-126-157-11	ELECT	10uF	20%	16V	
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C59	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	(H771:AEP,UK,IT,G)
C59	1-163-989-11	CERAMIC CHIP	33000PF	10%	25V	(H771:EE)
C60	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	(H771:AEP,UK,IT,G)
C60	1-163-989-11	CERAMIC CHIP	33000PF	10%	25V	(H771:EE)
C61	1-126-301-11	ELECT	1uF	20%	50V	
C62	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C63	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C64	1-126-967-11	ELECT	47uF	20%	16V	
C65	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
C66	1-126-162-11	ELECT	3.3uF	20%	50V	
C67	1-126-933-11	ELECT	100uF	20%	10V	
C68	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C71	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C72	1-126-967-11	ELECT	47uF	20%	16V	
C120	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	(H771:AEP,UK,IT,G)
		< FILTER >				
CF1	1-567-389-11	FILTER, CERAMIC (H771:EE)				
CF1	1-579-374-71	FILTER, CERAMIC (H771:AEP,UK,IT,G)				
CF2	1-760-393-11	FILTER, CERAMIC (H771:AEP,UK,IT,G)				
CF3	1-567-389-11	FILTER, CERAMIC (H771:EE)				
CF3	1-760-393-11	FILTER, CERAMIC (H771:AEP,UK,IT,G)				
		< CONNECTOR >				
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P				
		< DIODE >				
D21	8-719-976-XX	DIODE	UDZ-TE-17-5.1B			
D41	8-719-016-74	DIODE	1SS352-TPH3			

Ref.No.	Part No.	Description	Remark
		< FRONTEND >	
FE1	1-193-385-11	FRONT END (3 GANG)	(H771:EE)
FE1	1-233-542-11	FRONT END (4 GANG)	(H771:AEP, UK, IT, G)
FE2	1-233-514-11	ENCAPSULATED COMPONENT	(H771:AEP, UK, EE)
FE2	1-239-260-11	ENCAPSULATED COMPONENT	(H771:IT, G)
		< IC >	
IC21	8-759-288-54	IC LC72130	
IC41	8-759-176-03	IC LA1835	
		< IFT >	
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)	
		< JUMPER RESISTOR >	
JR1	1-216-295-91	METAL CHIP 0 5% 1/10W	(H771:AEP, UK, IT, G)
JR2	1-216-295-91	METAL CHIP 0 5% 1/10W	(H771:AEP, UK, EE)
JR3	1-216-295-91	METAL CHIP 0 5% 1/10W	(H771:AEP, UK, IT, G)
JR6	1-216-295-91	METAL CHIP 0 5% 1/10W	(H771:AEP, UK, IT, G)
JR7	1-216-295-91	METAL CHIP 0 5% 1/10W	(H771:AEP, UK, IT, G)
JR8	1-216-295-91	METAL CHIP 0 5% 1/10W	(H771:AEP, UK, EE)
JR9	1-216-295-91	METAL CHIP 0 5% 1/10W	(H771:AEP, UK, EE)
JR45	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR46	1-216-296-11	METAL CHIP 0 5% 1/8W	
JR47	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR48	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR49	1-216-296-11	METAL CHIP 0 5% 1/8W	
JR51	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR52	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR53	1-216-296-11	METAL CHIP 0 5% 1/8W	
JR54	1-216-295-91	METAL CHIP 0 5% 1/10W	
		< JUMPER RESISTOR >	
JW4	1-249-413-11	CARBON 470 5% 1/4W	(H771:AEP, UK, IT, G)
JW5	1-249-413-11	CARBON 470 5% 1/4W	(H771:AEP, UK, IT, G)
		< COIL >	
L2	1-414-142-11	MICRO INDUCTOR 1uH	(H771:AEP, UK, IT, G)
L3	1-410-521-11	MICRO INDUCTOR 100uH	
L4	1-410-515-11	INDUCTOR 33uH	(H771:AEP, UK, IT, G)
L41	1-407-500-00	MICRO INDUCTOR 4.7mH	(H771:AEP, UK, EE)
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE) 1mH	(H771:AEP, UK, IT, G)

Ref.No.	Part No.	Description	Remark
		< FILTER >	
LPF41	1-239-845-11	FILTER, LOW PASS	
LPF42	1-239-845-11	FILTER, LOW PASS	
		< TRANSISTOR >	
Q1	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q2	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q3	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q4	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L	
Q5	8-729-422-57	TRANSISTOR UN4111	
Q9	8-729-216-22	TRANSISTOR 2SA812-M5M6	(H771:AEP, UK, EE)
Q11	8-729-900-80	TRANSISTOR DTC114ES	
Q12	8-729-900-80	TRANSISTOR DTC114ES	
Q13	8-729-900-80	TRANSISTOR DTC114ES	
Q14	8-729-900-80	TRANSISTOR DTC114ES	
		< RESISTOR >	
R1	1-249-401-11	CARBON 47 5% 1/4W F	
R2	1-216-037-00	METAL CHIP 330 5% 1/10W	
R3	1-216-037-00	METAL CHIP 330 5% 1/10W	
R5	1-216-037-00	METAL CHIP 330 5% 1/10W	
R6	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R7	1-216-037-00	METAL CHIP 330 5% 1/10W	
R8	1-216-037-00	METAL CHIP 330 5% 1/10W	
R9	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R10	1-216-037-00	METAL CHIP 330 5% 1/10W	
R11	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R12	1-216-037-00	METAL CHIP 330 5% 1/10W	
R13	1-216-037-00	METAL CHIP 330 5% 1/10W	
R14	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R18	1-216-073-00	METAL CHIP 10K 5% 1/10W	(H771:AEP, UK, EE)
R19	1-216-073-00	METAL CHIP 10K 5% 1/10W	(H771:AEP, UK, EE)
R21	1-216-049-91	METAL CHIP 1.0K 5% 1/10W	
R22	1-216-049-91	METAL CHIP 1.0K 5% 1/10W	
R23	1-216-049-91	METAL CHIP 1.0K 5% 1/10W	
R24	1-216-025-91	METAL CHIP 100 5% 1/10W	
R25	1-249-417-11	CARBON 1K 5% 1/4W F	
R26	1-249-437-11	CARBON 47K 5% 1/4W	
R27	1-249-429-11	CARBON 10K 5% 1/4W	
R28	1-249-417-11	CARBON 1K 5% 1/4W F	
R29	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R30	1-216-186-00	METAL CHIP 330 5% 1/8W	
R31	1-216-025-91	METAL CHIP 100 5% 1/10W	
R32	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R33	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R34	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R35	1-216-214-00	METAL CHIP 4.7K 5% 1/8W	
R36	1-216-025-91	METAL CHIP 100 5% 1/10W	

Ref.No.	Part No.	Description				Remark
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R38	1-216-089-91	METAL CHIP	47K	5%	1/10W	
R39	1-249-429-11	CARBON	10K	5%	1/4W	
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R43	1-216-042-00	METAL CHIP	510	5%	1/10W	
R44	1-216-021-00	METAL CHIP	68	5%	1/10W	
R45	1-249-423-11	CARBON	3.3K	5%	1/4W F	
R46	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W	
R48	1-249-417-11	CARBON	1K	5%	1/4W F	
R49	1-216-049-91	METAL CHIP	1.0K	5%	1/10W	
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R53	1-249-429-11	CARBON	10K	5%	1/4W	
R54	1-249-399-11	CARBON	33	5%	1/4W	(H771:AEP,UK,EE)
R55	1-216-162-00	METAL CHIP	33	5%	1/8W	
R56	1-249-393-11	CARBON	10	5%	1/4W F	
R91	1-216-295-91	METAL CHIP	0	5%	1/10W	(H771:AEP,UK,EE)
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W	(H771:AEP,UK,EE)
		< VARIABLE RESISTOR >				
RV41	1-238-601-11	RES, ADJ, CARBON 22K				
RV42	1-238-600-11	RES, ADJ, CARBON 10K				
		< TERMINAL >				
TM1	1-537-488-11	TERMINAL BOARD (ANT)(ANTENNA)				
		< VIBRATOR >				
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)				
X41	1-760-220-11	FILTER, CERAMIC (10.7MHz)				
X42	1-527-981-00	FILTER, CERAMIC (450kHz)				
X43	1-577-075-11	OSCILLATOR, CERAMIC (456kHz)				
**********						
*	A-4303-517-A	TCB BOARD, COMPLETE (H771:CIS)				
		**********				
		< CAPACITOR >				
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C2	1-126-967-11	ELECT	47uF	20%	16V	
C3	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C5	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C6	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C7	1-101-004-00	CERAMIC	0.01uF		50V	
C8	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C9	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C10	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C11	1-163-038-91	CERAMIC CHIP	100000PF		25V	

Ref.No.	Part No.	Description				Remark
C14	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C15	1-136-162-00	METALIZED FILM	0.056uF	5%	50V	
C16	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C17	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C18	1-163-088-00	CERAMIC CHIP	5PF		50V	
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C22	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	
C26	1-126-967-11	ELECT	47uF	20%	50V	
C28	1-126-967-11	ELECT	47uF	20%	50V	
C29	1-162-306-11	CERAMIC	10000PF	20%	16V	
C30	1-124-925-11	ELECT	2.2uF	20%	100V	
C31	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C32	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C33	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C34	1-163-091-00	CERAMIC CHIP	8PF		50V	
C35	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C38	1-162-211-31	CERAMIC	33PF	5%	50V	
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C40	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C41	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C42	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C43	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C44	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C45	1-163-038-91	CERAMIC CHIP	100000PF		25V	
C46	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V	
C47	1-126-967-11	ELECT	47uF	20%	50V	
C48	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C49	1-124-902-00	ELECT	0.47uF	20%	50V	
C50	1-124-903-11	ELECT	1.0uF	20%	50V	
C51	1-124-903-11	ELECT	1.0uF	20%	50V	
C52	1-126-964-11	ELECT	10uF	20%	50V	
C53	1-126-964-11	ELECT	10uF	20%	50V	
C54	1-126-157-11	ELECT	10uF	20%	16V	
C55	1-126-157-11	ELECT	10uF	20%	16V	
C56	1-126-157-11	ELECT	10uF	20%	16V	
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C59	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V	
C60	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V	
C61	1-126-301-11	ELECT	1uF	20%	50V	
C62	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C63	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C64	1-126-967-11	CAP, ELECT	47uF	20%	50V	
C65	1-163-031-11	CERAMIC CHIP	10000PF		50V	
C66	1-126-162-11	ELECT	3.3uF	20%	50V	
C67	1-126-933-11	ELECT	100uF	20%	16V	

Ref.No.	Part No.	Description				Remark
C68	1-162-306-11	CERAMIC	10000PF	20%	16V	
C69	1-126-964-11	ELECT	10uF	20%	50V	
C70	1-126-964-11	ELECT	10uF	20%	50V	
C71	1-162-306-11	CERAMIC	10000PF	20%	16V	
C72	1-126-967-11	ELECT	47uF	20%	50V	
		< FILTER >				
CF1	1-567-389-11	FILTER, CERAMIC				
CF3	1-567-389-11	FILTER, CERAMIC				
		< CONNECTOR >				
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P				
* CN2	1-568-832-11	SOCKET, CONNECTOR 13P				
		< VARIABLE CAPACITOR >				
CV1	1-141-227-00	CAP, TRIMMER 20PF				
CV2	1-141-227-00	CAP, TRIMMER 20PF				
		< DIODE >				
D1	8-719-976-30	DIODE	KV1560NT			
D21	8-719-976-99	DIODE	UDZ-TE-17-5.1B			
D41	8-719-016-74	DIODE	1SS352-TPH3			
D42	8-719-987-63	DIODE	1N4148M			
D43	8-719-987-63	DIODE	1N4148M			
		< FRONT END >				
FE1	1-693-335-11	FRONT END (3 GANG)				
FE2	1-239-262-11	ENCAPSULATED COMPONENT				
		< IC >				
IC21	8-759-288-54	IC	LC72130			
IC41	8-759-176-03	IC	LA1835			
		< IFT >				
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)				
		< JUMPER RESISTOR >				
JR45	1-216-295-91	METAL GLAZE	0	5%	1/10W	
JR46	1-216-296-91	METAL GLAZE	0	5%	1/8W	
JR47	1-216-295-91	METAL GLAZE	0	5%	1/10W	
JR48	1-216-295-91	METAL GLAZE	0	5%	1/10W	
JR49	1-216-296-91	METAL GLAZE	0	5%	1/8W	
JR50	1-216-295-91	METAL GLAZE	0	5%	1/10W	
JR51	1-216-295-91	METAL GLAZE	0	5%	1/10W	
JR52	1-216-295-91	METAL GLAZE	0	5%	1/10W	
JR53	1-216-296-91	METAL GLAZE	0	5%	1/8W	
JR54	1-216-295-91	METAL GLAZE	0	5%	1/10W	
		< COIL >				
L1	1-410-521-11	MICRO INDUCTOR 100uH				
L3	1-410-521-11	MICRO INDUCTOR 100uH				
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE) 1mH				
		< FILTER >				
LPF41	1-239-845-11	FILTER, LOW PASS				
LPF42	1-239-845-11	FILTER, LOW PASS				
		< TRANSISTOR >				
Q1	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L			
Q2	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L			
Q3	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L			
Q4	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L			
Q5	8-729-422-57	TRANSISTOR	UN4111			
Q8	8-729-033-67	TRANSISTOR	2SK211-Y-TE85L			
Q9	8-729-216-22	TRANSISTOR	2SA812-T1-M5M6			
Q10	8-729-216-22	TRANSISTOR	2SA812-T1-M5M6			
Q12	8-729-900-80	TRANSISTOR	DTC114ES			
Q13	8-729-900-80	TRANSISTOR	DTC114ES			
Q14	8-729-900-80	TRANSISTOR	DTC114ES			
		< RESISTOR >				
R1	1-249-401-11	CARBON	47	5%	1/4W	
R2	1-216-037-00	METAL CHIP	330	5%	1/10W	
R3	1-216-037-00	METAL CHIP	330	5%	1/10W	
R5	1-216-037-00	METAL CHIP	330	5%	1/10W	
R6	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R7	1-216-037-00	METAL CHIP	330	5%	1/10W	
R8	1-216-037-00	METAL CHIP	330	5%	1/10W	
R9	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R10	1-216-037-00	METAL CHIP	330	5%	1/10W	
R11	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R12	1-216-037-00	METAL CHIP	330	5%	1/10W	
R13	1-216-037-00	METAL CHIP	330	5%	1/10W	
R14	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R18	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R19	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R20	1-216-121-91	METAL CHIP	1.0M	5%	1/10W	
R21	1-216-049-91	METAL CHIP	1.0K	5%	1/10W	
R22	1-216-049-91	METAL CHIP	1.0K	5%	1/10W	
R23	1-216-049-91	METAL CHIP	1.0K	5%	1/10W	
R24	1-216-025-91	METAL CHIP	100	5%	1/10W	
R25	1-249-417-11	CARBON	1K	5%	1/4W	
R26	1-249-437-11	CARBON	47K	5%	1/4W	
R27	1-249-429-11	CARBON	10K	5%	1/4W	
R28	1-249-417-11	CARBON	1K	5%	1/4W	
R29	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R30	1-216-186-00	METAL CHIP	330	5%	1/8W	
R31	1-216-025-91	METAL CHIP	100	5%	1/10W	
R32	1-249-425-11	CARBON	4.7K	5%	1/4W	

Ref.No.	Part No.	Description				Remark
R33	1-249-425-11	CARBON	4.7K	5%	1/4W	
R34	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R35	1-216-214-00	METAL CHIP	4.7K	5%	1/8W	
R36	1-216-025-91	METAL CHIP	100	5%	1/10W	
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R38	1-216-089-91	METAL CHIP	47K	5%	1/10W	
R39	1-249-429-11	CARBON	10K	5%	1/4W	
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R43	1-216-042-00	METAL CHIP	510	5%	1/10W	
R44	1-216-021-00	METAL CHIP	68	5%	1/10W	
R45	1-249-423-11	CARBON	3.3K	5%	1/4W	
R46	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W	
R48	1-249-417-11	CARBON	1K	5%	1/4W	
R49	1-216-049-91	METAL CHIP	1.0K	5%	1/10W	
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R53	1-249-429-11	CARBON	10K	5%	1/4W	
R54	1-249-399-11	CARBON	33	5%	1/4W	
R55	1-216-162-00	METAL CHIP	33	5%	1/10W	
R56	1-249-393-11	CARBON	10	5%	1/4W	
R91	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R93	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R94	1-216-073-00	METAL CHIP	10K	5%	1/10W	
		< VARIABLE RESISTOR >				
RV41	1-238-601-11	RES, ADJ, CARBON 22K				
RV42	1-238-600-11	RES, ADJ, CARBON 10K				
		< TRANSFORMER >				
T1	1-409-505-11	COIL (ANT. SW3)				
T2	1-402-960-11	COIL (OSC SW3)				
		< TERMINAL >				
TM1	1-537-488-12	TERMINAL BOARD (ANTENNA)				
		< VIBRATOR >				
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)				
X41	1-760-220-11	FILTER, CERAMIC (10.7MHz)				
X42	1-527-981-00	FILTER, CERAMIC (450kHz)				
X43	1-577-075-11	OSCILLATOR, CERAMIC (19kHz)				
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*	A-4303-537-A	TCB BOARD, COMPLETE (H771:TH)				
		**********				
		< CAPACITOR >				
C1	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C2	1-126-967-11	ELECT	47uF	20%	16V	
C3	1-164-159-21	CERAMIC	0.1uF		50V	
C5	1-162-306-11	CERAMIC	10000PF	30%	16V	
C6	1-162-306-11	CERAMIC	10000PF	30%	16V	
C7	1-101-004-00	CERAMIC	0.01uF		50V	
C8	1-162-306-11	CERAMIC	10000PF	30%	16V	
C9	1-162-306-11	CERAMIC	10000PF	30%	16V	
C11	1-164-159-21	CERAMIC	0.1uF		50V	
C12	1-162-198-31	CERAMIC	8.2PF	10%	50V	
C14	1-162-306-11	CERAMIC	10000PF	30%	16V	
C21	1-102-960-00	CERAMIC	24PF	5%	50V	
C22	1-164-159-21	CERAMIC	0.1uF		50V	
C23	1-162-306-11	CERAMIC	10000PF	30%	16V	
C24	1-126-967-11	ELECT	47uF	20%	16V	
C25	1-162-306-11	CERAMIC	10000PF	30%	16V	
C26	1-126-964-11	ELECT	10uF	20%	50V	
C27	1-164-159-21	CERAMIC	0.1uF		50V	
C28	1-124-925-11	ELECT	2.2uF	20%	100V	
C29	1-102-960-00	CERAMIC	24PF	5%	50V	
C30	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C31	1-162-306-11	CERAMIC	10000PF	30%	16V	
C41	1-126-933-11	ELECT	100uF	20%	10V	
C42	1-162-306-11	CERAMIC	10000PF	30%	16V	
C43	1-126-962-11	ELECT	3.3uF	20%	50V	
C44	1-162-306-11	CERAMIC	10000PF	30%	16V	
C45	1-124-589-11	ELECT	47uF	20%	16V	
C46	1-162-600-11	CERAMIC	4700PF	30%	16V	
C47	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C48	1-126-160-11	ELECT	1uF	20%	50V	
C49	1-136-159-00	METALIZED FILM	0.033uF	5%	50V	
C50	1-136-159-00	METALIZED FILM	0.033uF	5%	50V	
C51	1-162-600-11	CERAMIC	4700PF	30%	16V	
C52	1-162-600-11	CERAMIC	4700PF	30%	16V	
C53	1-126-964-11	ELECT	10uF	20%	50V	
C54	1-126-157-11	ELECT	10uF	20%	16V	
C55	1-126-964-11	ELECT	10uF	20%	50V	
C56	1-126-964-11	ELECT	10uF	20%	50V	
C57	1-164-159-21	CERAMIC	0.1uF		50V	F
C58	1-162-306-11	CERAMIC	10000PF	30%	16V	
C59	1-164-159-21	CERAMIC	0.1uF		50V	F
C61	1-164-159-21	CERAMIC	0.1uF		50V	F
C62	1-126-967-11	ELECT	47uF	20%	16V	
C63	1-164-159-21	CERAMIC	0.1uF		50V	F
C64	1-124-902-00	ELECT	0.47uF	20%	50V	
C65	1-124-903-11	ELECT	1.0uF	20%	50V	
C66	1-124-903-11	ELECT	1.0uF	20%	50V	
C67	1-126-964-11	ELECT	10uF	20%	50V	
C68	1-162-306-11	CERAMIC	10000PF	30%	16V	
C69	1-162-306-11	CERAMIC	10000PF	30%	16V	
C70	1-162-306-11	CERAMIC	10000PF	30%	16V	

TCB

Ref. No.	Part No.	Description				Remark
C71	1-162-306-11	CERAMIC	10000PF	30%	16V	
C73	1-162-306-11	CERAMIC	10000PF	30%	16V	
C74	1-126-964-11	ELECT	10uF	20%	50V	
		< FILTER >				
CF1	1-567-389-11	FILTER, CERAMIC				
CF2	1-567-389-11	FILTER, CERAMIC				
		< CONNECTOR >				
* CN1	1-568-832-11	SOCKET, CONNECTOR 13P				
		< DIODE >				
D1	8-719-933-33	DIODE UZL-6L1-TA				
D2	8-719-987-63	DIODE 1N4148M-TA				
		< FRONTEND >				
FE1	1-233-533-11	ENCAPSULATED COMPONENT				
FE2	1-239-260-11	ENCAPSULATED COMPONENT				
		< IC >				
IC1	8-759-288-54	IC LC72130				
IC2	8-759-176-03	IC LA1835				
		< IFT >				
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)				
		< COIL >				
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE)				
		< FILTER >				
LPF41	1-239-845-11	FILTER, LOW PASS				
LPF42	1-239-845-11	FILTER, LOW PASS				
		< TRANSISTOR >				
Q1	8-729-230-99	TRANSISTOR 2SC2669OY-TPE4				
Q2	8-729-230-99	TRANSISTOR 2SC2669OY-TPE4				
Q3	8-729-230-99	TRANSISTOR 2SC2669OY-TPE4				
Q4	8-729-230-99	TRANSISTOR 2SC2669OY-TPE4				
Q5	8-729-422-57	TRANSISTOR BN1A4M-TP				
		< RESISTOR >				
R1	1-249-401-11	CARBON	47	5%	1/4W	F
R2	1-249-411-11	CARBON	330	5%	1/4W	
R3	1-249-411-11	CARBON	330	5%	1/4W	
R5	1-249-411-11	CARBON	330	5%	1/4W	
R6	1-249-433-11	CARBON	22K	5%	1/4W	
R7	1-249-411-11	CARBON	330	5%	1/4W	
R8	1-249-411-11	CARBON	330	5%	1/4W	
R9	1-249-433-11	CARBON	22K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R10	1-249-411-11	CARBON	330	5%	1/4W	
R11	1-249-433-11	CARBON	22K	5%	1/4W	
R12	1-249-411-11	CARBON	330	5%	1/4W	
R13	1-249-411-11	CARBON	330	5%	1/4W	
R14	1-249-433-11	CARBON	22K	5%	1/4W	
R15	1-249-429-11	CARBON	10K	5%	1/4W	
R16	1-249-437-11	CARBON	47K	5%	1/4W	
R19	1-249-399-11	CARBON	33	5%	1/4W	F
R21	1-247-807-31	CARBON	100	5%	1/4W	
R22	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R23	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R24	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R25	1-247-807-31	CARBON	100	5%	1/4W	
R26	1-249-411-11	CARBON	330	5%	1/4W	
R27	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R28	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R29	1-249-417-11	CARBON	1K	5%	1/4W	F
R30	1-249-417-11	CARBON	1K	5%	1/4W	F
R31	1-249-417-11	CARBON	1K	5%	1/4W	F
R32	1-249-417-11	CARBON	1K	5%	1/4W	F
R33	1-247-807-31	CARBON	100	5%	1/4W	
R34	1-249-429-11	CARBON	10K	5%	1/4W	
R35	1-249-429-11	CARBON	10K	5%	1/4W	
R36	1-249-437-11	CARBON	47K	5%	1/4W	
R37	1-249-417-11	CARBON	1K	5%	1/4W	F
R41	1-249-429-11	CARBON	10K	5%	1/4W	
R43	1-249-421-11	CARBON	2.2K	5%	1/4W	
R44	1-249-421-11	CARBON	2.2K	5%	1/4W	
R46	1-249-442-11	CARBON	510	5%	1/4W	
R47	1-249-403-11	CARBON	68	5%	1/4W	F
R48	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R49	1-249-393-11	CARBON	10	5%	1/4W	F
R50	1-249-429-11	CARBON	10K	5%	1/4W	
R51	1-249-441-11	CARBON	100K	5%	1/4W	
R52	1-249-429-11	CARBON	10K	5%	1/4W	
R53	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R54	1-249-425-11	CARBON	4.7K	5%	1/4W	F
		< VARIABLE RESISTOR >				
RV41	1-238-600-11	RES, ADJ, CARBON 10K				
RV42	1-238-601-11	RES, ADJ, CARBON 22K				
		< TERMINAL >				
TM1	1-537-238-21	TERMINAL BOARD (ANTENNA)				
		< VIBRATOR >				
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)				
X41	1-577-075-11	OSCILLATOR, CERAMIC (456kHz)				
X42	1-760-220-11	FILTER, CERAMIC (10.7MHz)				
X43	1-527-981-00	FILTER, CERAMIC (450kHz)				

Ref.No.	Part No.	Description	Remark
**********			
*	1-659-328-11	TRANSFORMER BOARD	
		**********	
		< CONNECTOR >	
* CN1600	1-564-525-11	PLUG, CONNECTOR 10P	
CN1601	1-564-321-00	PIN, CONNECTOR 2P	
		< FUSE HOLDER >	
FH1601	1-533-223-11	HOLDER, FUSE (H771:E, EA, HK, SP, AR)	
FH1602	1-533-223-11	HOLDER, FUSE (H771:E, EA, HK, SP, AR)	
		< RESISTOR >	
⚠R1600	1-202-725-00	SOLID 3.3M 10% 1/2W	(H771:US, CND/H771D)
		< SWITCH >	
⚠VS1601	1-572-675-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR) (H771:E, EA, HK, SP, AR)	
**********			
		MISCELLANEOUS	
		**********	
4	1-769-978-11	WIRE (FLAT TYPE) (13 CORE)	(H771:US, CND, E2, AUS, MX, AR, TH/H771D)
4	1-773-010-11	WIRE (FLAT TYPE) (15 CORE)	(H771:AEP, UK, E3, G, IT, EE, CIS, EA, MY, HK, SP)
* 5	1-233-544-11	ENCAPSLATED COMPONENT, FM/AM TUNER	(H771:US, CND/H771D)
* 5	1-233-545-11	ENCAPSLATED COMPONENT, FM/AM TUNER	(H771:E2, AUS, AR, MX)
* 5	1-233-546-11	ENCAPSLATED COMPONENT, FM/AM TUNER	(H771:E3, EA, MY, SP, HK)
6	1-769-978-11	WIRE (FLAT TYPE) (13 CORE)	
7	1-769-946-11	WIRE (FLAT TYPE) (11 CORE)	
8	1-773-157-11	WIRE (FLAT TYPE) (21 CORE)	
9	1-776-166-11	WIRE (FLAT TYPE) (19 CORE)	
11	1-769-979-11	WIRE (FLAT TYPE) (13 CORE) (CIS)	
52	1-537-770-21	TERMINAL BOARD, GROUND	
⚠57	1-575-651-11	CORD, POWER	(EXCEPT H771:US, CND, UK, E, AUS, MX, TH/H771D)
⚠57	1-575-653-11	CORD, POWER (H771:E, MX)	
⚠57	1-690-608-11	CORD, POWER (H771:AUS)	
⚠57	1-690-609-21	CORD, POWER (H771:US, CND/H771D)	
⚠57	1-751-326-31	CORD, POWER (H771:TH)	
⚠57	1-751-520-21	CORD, POWER (H771:UK)	
⚠58	1-569-007-11	ADAPTER, CONVERSION 2P (H771:E3)	
⚠58	1-569-008-21	ADAPTER, CONVERSION 2P (H771:EA, MY, SP)	
⚠58	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (H771:HK)	
257	1-452-538-11	MAGNET	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)	
⚠301	8-848-387-01	OPTICAL PICK-UP KSS-213BA/S-N	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
⚠F1601	1-532-350-00	FUSE, TIME LAG (T4A, 250V)	(EXCEPT H771:US, CND/H771D)
⚠F1601	1-576-108-11	FUSE (H771:US, CND/H771D)	
⚠F1602	1-532-350-00	FUSE, TIME LAG (T4A, 250V)	(EXCEPT H771:US, CND/H771D)
⚠F1602	1-576-108-11	FUSE (H771:US, CND/H771D)	
⚠F1603	1-532-203-00	FUSE, TIME LAG (T2A, 250V)	(E, EA, SP, HK, AR)
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	
HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK)	
HRPE101	1-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE)	
M1	X-3371-223-1	MOTOR ASSY (CAPSTAN)	
M2	A-3369-111-1	MOTOR ASSY (TRIGGER)	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
M701	A-4672-004-A	MOTOR ASSY (TURN)	
M801	A-4672-004-A	MOTOR ASSY (SLIDE)	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	
S811	1-473-335-11	ENCODER, ROTARY	
⚠T1001	1-429-435-11	TRANSFORMER, POWER	(H771:AEP, UK, G, IT, EE, CIS)
⚠T1001	1-429-436-11	TRANSFORMER, POWER	(H771:E, AUS, EA, MX, MY, HK, SP, AR, TH)
⚠T1001	1-429-556-11	TRANSFORMER, POWER (H771:US/H771D:US)	
⚠T1001	1-429-644-11	TRANSFORMER, POWER (H771:CND/H771D:CND)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
*	4-981-035-01	CUSHION (FRONT)	
*	4-981-036-01	CUSHION (REAR)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-682-548-04	SCREW +BVTT 3X8 (S)	
#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#4	7-621-775-10	SCREW +B 2.6X4	
#5	7-621-255-15	SCREW +P 2X3	
#6	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
#7	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#8	7-623-921-01	RING, RETAINING, CAPSTAN	
#9	7-621-775-00	SCREW +B 2.6X3	
#10	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#11	7-621-770-67	SCREW +BVTT 2.6X6 (S)	

9-960-535-11

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

English
96B0996-1
Printed in Japan
© 1996. 2
Published by Home A&V Products Div.
Quality Engineering Dept.

HCD-H771/H771D

SONY

SERVICE MANUAL

US Model
Canadian Model
HCD-H771/H771D
AEP Model
UK Model
E Model
Australian Model
HCD-H771

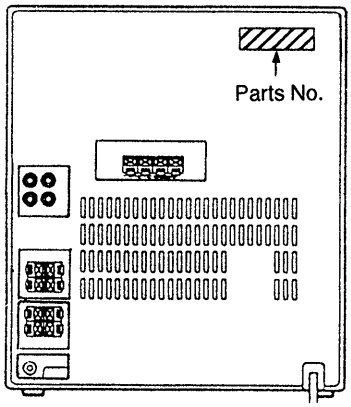
SUPPLEMENT-1

File this supplement with the service manual.

Subject : 1. CORRECTION
2. SERVICING NOTE ADDITION
3. PARTS SUPPLY CLASSIFICATION CHANGED
4. PARTS CHANGED
5. CIRCUIT AND BOARD CHANGED
6. MODEL ADDITION (HCD-H771 : Taiwan, Indonesian model)
7. DIFFERENCE DEPENDING ON PRODUCT COUNTRY OF MECHANISM DECK (CDM38-5BD19, TCM-220WR2E)

(ECN-TA601832)

MODEL IDENTIFICATION
— BACK PANEL —



PARTS No.	MODEL	PRODUCT COUNTRY
4-978-817-9□	H771D : US model	MALAYSIA
4-982-549-0□	H771D : Canadian model	MALAYSIA
4-978-817-7□	H771 : US model	MALAYSIA
4-978-817-8□	H771 : Canadian model	MALAYSIA
4-978-817-0□	H771 : AEP model	MALAYSIA
4-978-817-1□	H771 : UK model	MALAYSIA
4-978-817-2□	H771 : German model	MALAYSIA
4-978-817-3□	H771 : Italian model	MALAYSIA
4-978-817-4□	H771 : East European model	MALAYSIA
4-978-817-5□	H771 : CIS model	MALAYSIA
4-979-275-0□	H771 : E2, E3 model	MALAYSIA
4-979-275-1□	H771 : Saudi Arabia, Taiwan model	MALAYSIA
4-979-275-2□	H771 : Australian model	MALAYSIA
4-979-275-3□	H771 : Mexican model	MALAYSIA
4-979-275-4□	H771 : Malaysia model	MALAYSIA
4-979-275-5□	H771 : Singapore model	MALAYSIA
4-979-275-6□	H771 : Argentine model	MALAYSIA
4-979-275-7□	H771 : Hong Kong model	MALAYSIA
4-979-275-8□	H771 : Thailand model	MALAYSIA
4-979-275-9□	H771 : Indonesian model	INDONESIA

- Abbreviation
  E2 : Without SW tuner model.
  E3 : With SW tuner model.

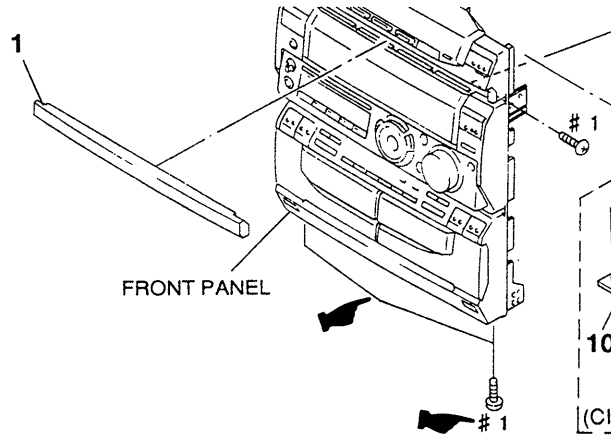
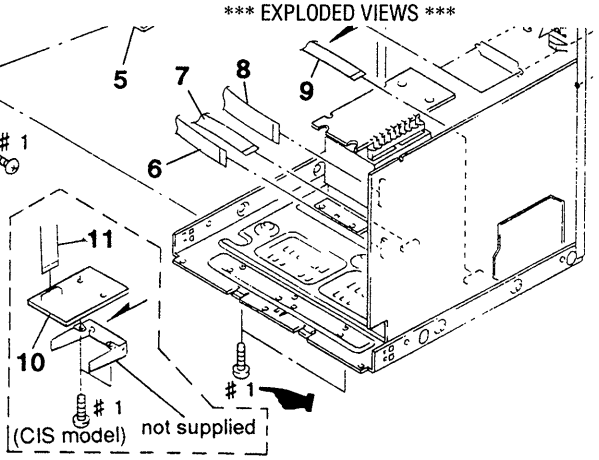
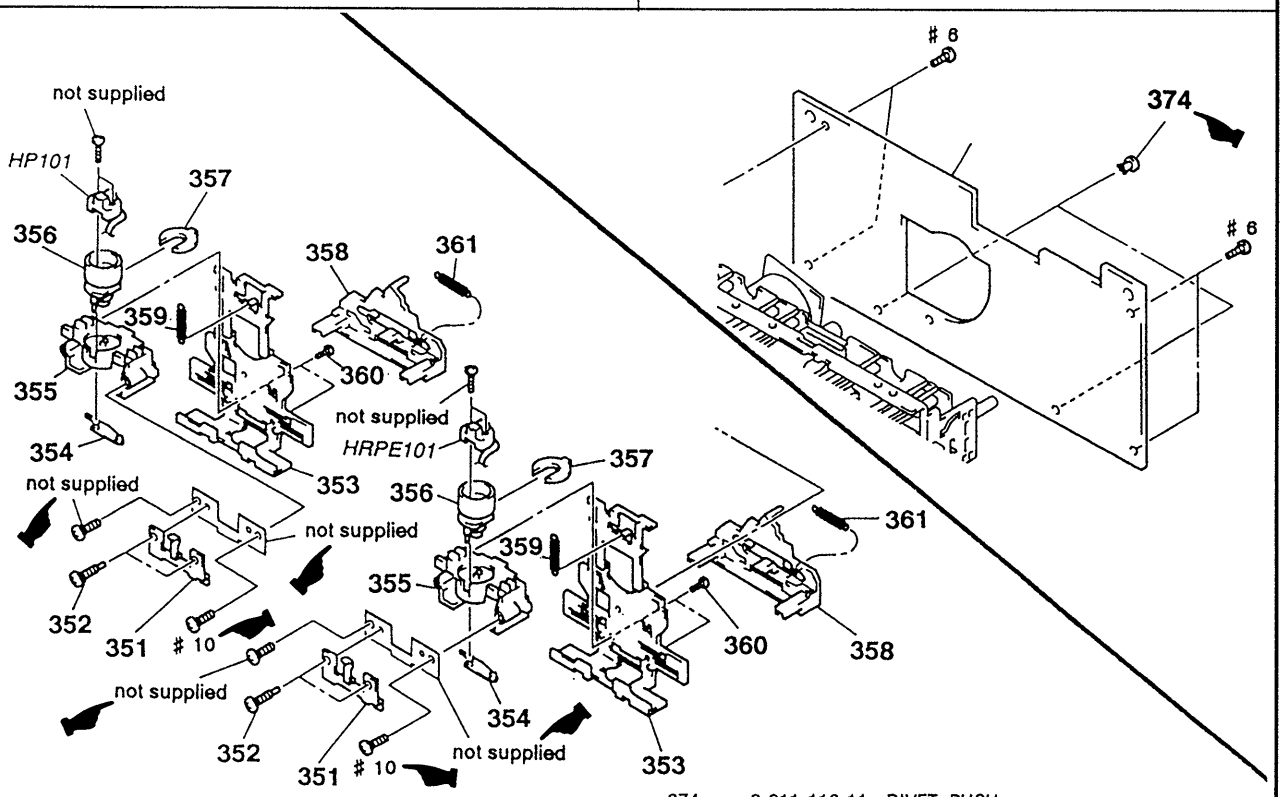
Note: The model of HCD-H771 : Taiwan, Indonesian are added, so please look at this.

1. CORRECTION

• Correct your service manual as shown below.

☛ : indicates corrected portion.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

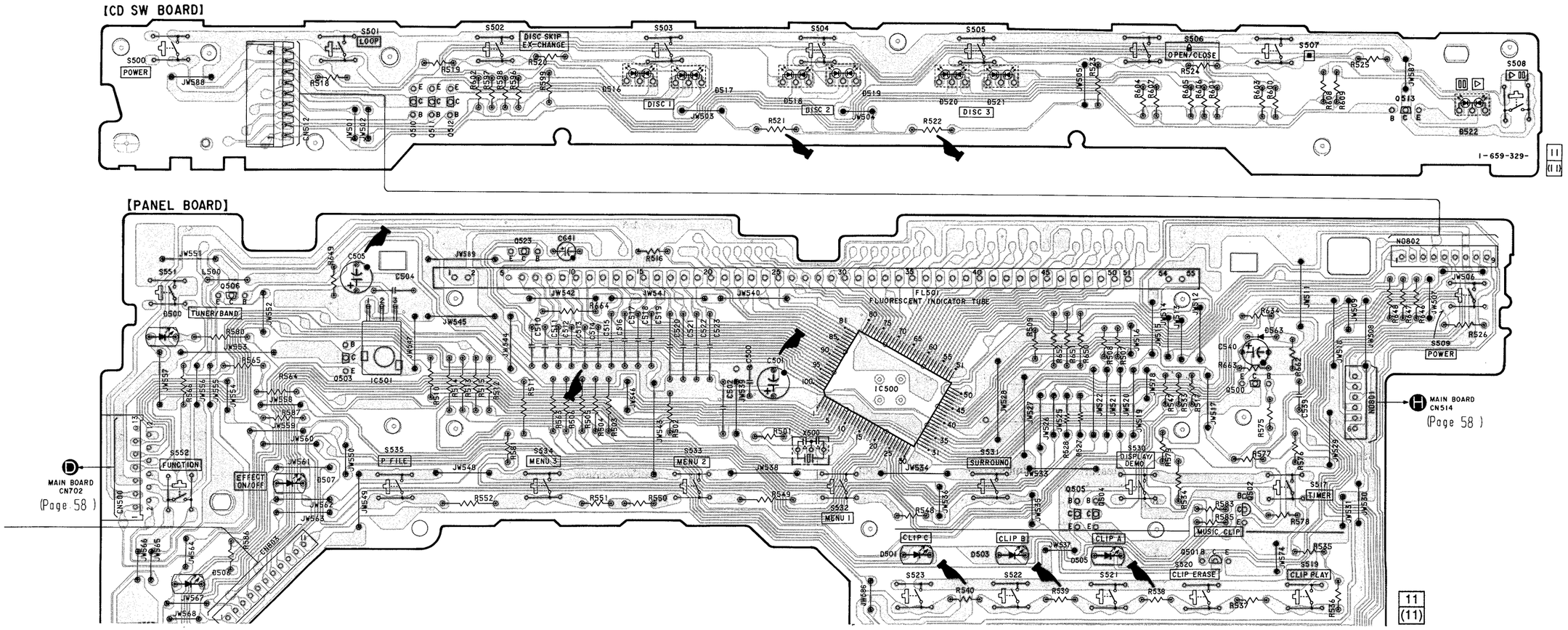
Page	INCORRECT	CORRECT
82	Ref. No. Part No. Description Remark *** EXPLODED VIEWS *** 	Ref. No. Part No. Description Remark *** EXPLODED VIEWS *** 
83	⚠301 8-848-367-01 OPTICAL PICK-UP KSS-213 BA/F-NP	⚠301 8-848-367-11 OPTICAL PICK-UP KSS-213 BA/F-NP
89		374 3-911-116-11 RIVET, PUSH
90	419 3-914-111-01 SPRING (FR), TORSION	419 3-911-114-01 SPRING (FR), TORSION
104	*** ELECTRICAL PARTS LIST *** *** PANEL BOARD *** R573 1-249-423-11 CARBON 10K 5% 1/4W F	*** ELECTRICAL PARTS LIST *** *** PANEL BOARD *** R573 1-247-843-11 CARBON 3.3K 5% 1/4W
113	*** MISCELLANEOUS *** ⚠301 8-848-387-01 OPTICAL PICK-UP KSS-213 BA/S-N ⚠F1601 1-576-108-11 FUSE (H771: US,CND/H771D)	*** MISCELLANEOUS *** ⚠301 8-848-367-11 OPTICAL PICK-UP KSS-213 BA/F-NP ⚠F1601 1-576-108-11 FUSE (4A,125V)(US,CND)

• Abbreviation
CND : Canadian model.

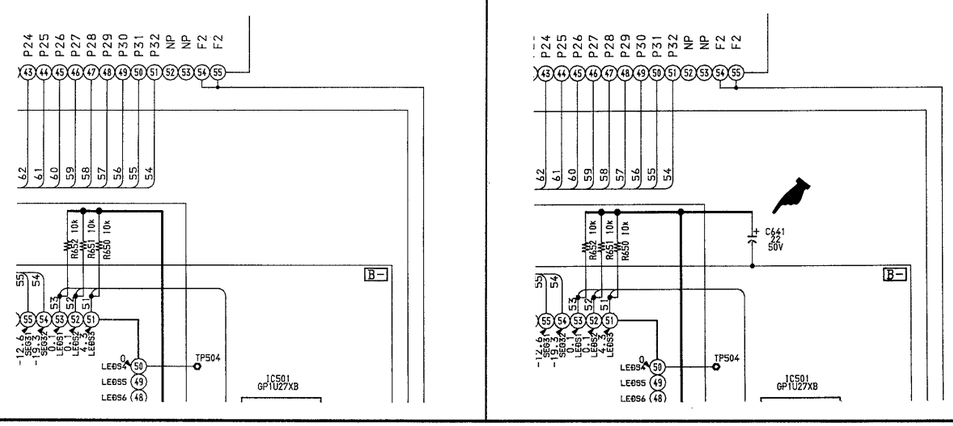
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

[CD SW BOARD]

[PANEL BOARD]



Page	INCORRECT	CORRECT
78	**[PANEL BOARD]** Location : C–E, 13–14	**[PANEL BOARD]** Location : C–E, 13–14



ELECTRICAL ADJUSTMENTS CORRECTION

• Correct your service manual as shown below.

☛ : indicates corrected portion.

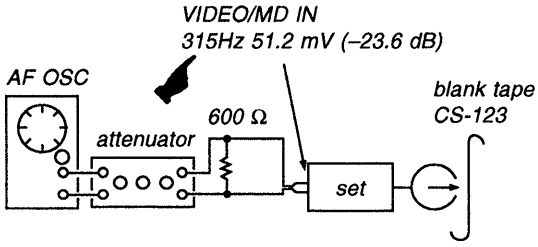
DECK SECTION

Record Bias Adjustment DECK B — Page 13 —

Record Level Adjustment DECK B — Page 13 —

Procedure:

1. Set function to VIDEO.
2. Mode : record

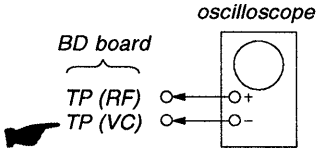


CD SECTION — Page 17 —

Note:

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Adjust the focus bias adjustment when optical block is replaced.

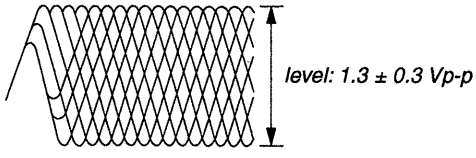
Focus Bias Adjustment



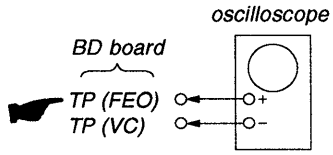
Procedure:

1. Connect oscilloscope to test point TP (RF). ☛
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Adjust RV101 so that the waveform is clear.
   (Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.)
5. After adjustment, check the RF signal level.

• RF signal
VOLT/DIV: 200 mV
TIME/DIV: 500 nS



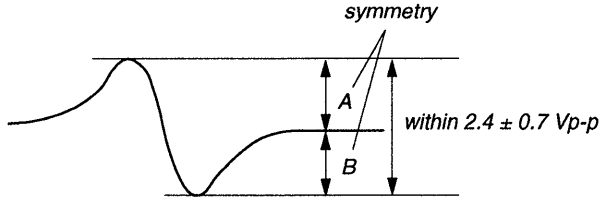
S Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO).
2. Connect between test point TP (FOK) and Ground by lead wire.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2.4 ± 0.7 Vp-p.

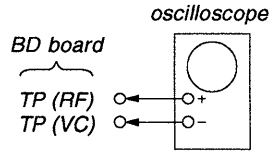
S-curve waveform



6. After check, remove the lead wire connected in step 2.

Note: • Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

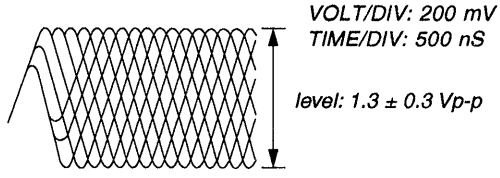


Procedure :

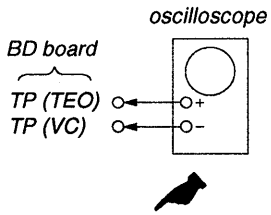
1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note: Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

RF signal waveform



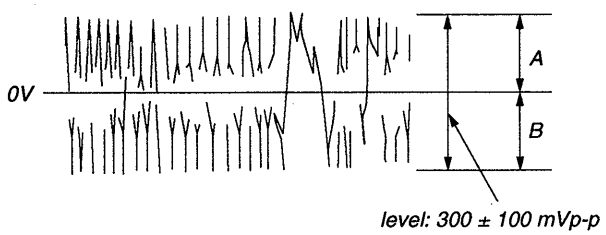
E-F Balance Check — Page 18 —



Procedure:

1. Connect test point TP703 (ADJ2) on Main board to Ground with a lead wire.
2. Connect oscilloscpe to test point TP (TEO).
3. Turned Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0Vdc, and check this level.

Traverse waveform



Specified level: • $\frac{A-B}{2(A+B)} \times 100$ = less than ± 7%

• A + B = 300 ± 100 mVp-p

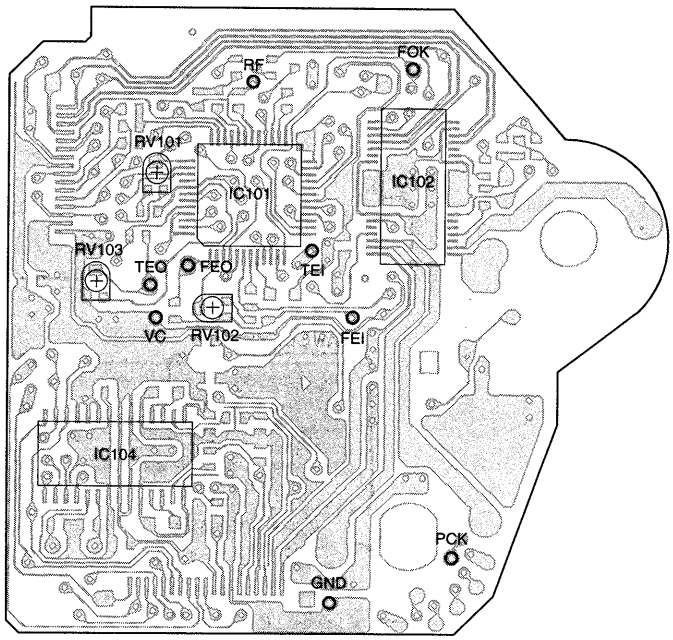
6. Remove the lead wire connected in step 1.

Focus/Tracking Gain Adjustment (RV102, RV103)

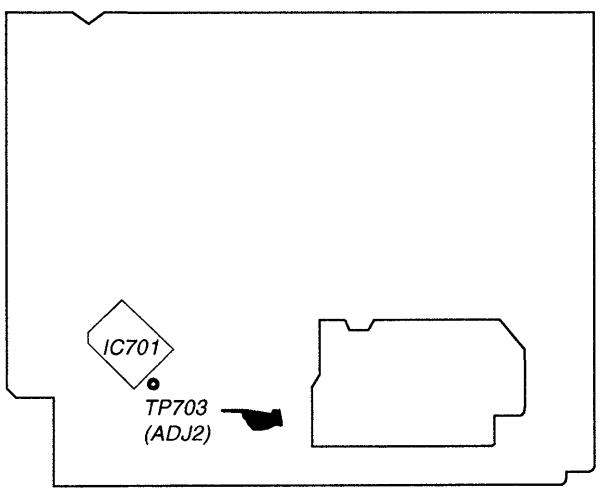
This gain has a margin, so even if it is slightly off.
There is no problem.
Therfore, do not perform this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Location:

[BD BOARD] — Component Side —



[MAIN BOARD] — Conductor Side —



2. SERVICING NOTE ADDITION

[How to reset all]

Pressing the [TUNER/BAND], [DISPLAY/DEMO] and [MENU 3] buttons simultaneously, all are reset and returned to as when the unit was shipped.

3. PARTS SUPPLY CLASSIFICATION CHANGED

Revise your manual as shown below due to parts supply classification has been changed.

Page	CURRENT							REVISED						
83	Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
			*** EXPLODED VIEWS ***							*** EXPLODED VIEWS ***				
	⚠F1601	1-532-350-00	FUSE, TIME LAG (4A 250V) (EXCEPT H771: US,CND/H771D)					⚠F1601	1-532-504-31	FUSE, TIME LAG (4A 250V)				(EXCEPT US,CND)
	⚠F1602	1-532-350-00	FUSE, TIME LAG (4A 250V) (EXCEPT H771: US,CND/H771D)					⚠F1602	1-532-504-31	FUSE, TIME LAG (4A 250V)				(EXCEPT US,CND)
	⚠F1603	1-532-203-00	FUSE, TIME LAG (2A 250V)(E,EA,SP,HK,AR)					⚠F1603	1-532-388-31	FUSE, TIME LAG (2A 250V)(E,EA,SP,HK,AR)				
100	*** ELECTRICAL PARTS LIST ***							*** ELECTRICAL PARTS LIST ***						
	*** MAIN BOARD ***							*** MAIN BOARD ***						
	⚠R1601	1-219-139-11	FUSIBLE	0.68	5%	1/4W	F	⚠R1601	1-219-124-11	FUSIBLE	0.68	5%	1/4W	F
	⚠R1602	1-219-136-11	FUSIBLE	0.22	5%	1/4W	F	⚠R1602	1-219-121-11	FUSIBLE	0.22	5%	1/4W	F
	⚠R1603	1-219-136-11	FUSIBLE	0.22	5%	1/4W	F	⚠R1603	1-219-121-11	FUSIBLE	0.22	5%	1/4W	F
113	*** MISCELLANEOUS ***							*** MISCELLANEOUS ***						
	⚠F1601	1-532-350-00	FUSE, TIME LAG (4A 250V) (EXCEPT H771: US,CND/H771D)					⚠F1601	1-532-504-31	FUSE, TIME LAG (4A 250V)				(EXCEPT US,CND)
	⚠F1602	1-532-350-00	FUSE, TIME LAG (4A 250V) (EXCEPT H771: US,CND/H771D)					⚠F1602	1-532-504-31	FUSE, TIME LAG (4A 250V)				(EXCEPT US,CND)
	⚠F1603	1-532-203-00	FUSE, TIME LAG (2A 250V)(E,EA,SP,HK,AR)					⚠F1603	1-532-388-31	FUSE, TIME LAG (2A 250V)(E,EA,SP,HK,AR)				

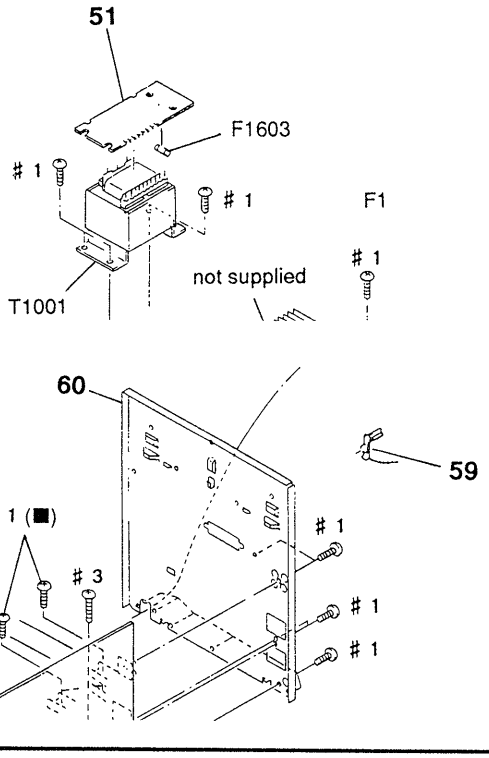
- Abbreviation
  CND : Canadian model.
  EA : Saudi Arabia model.
  SP : Singapore model.
  HK : Hong Kong model.
  AR : Argentine model.

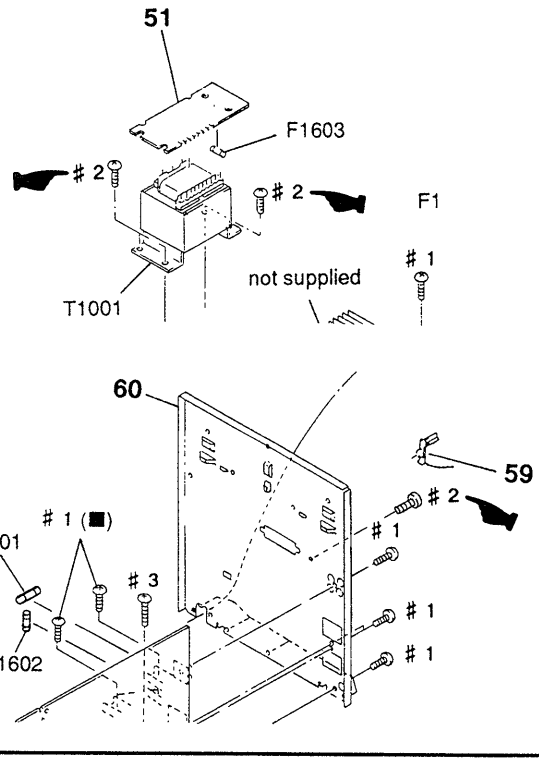
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

4. PARTS CHANGED

: indicates changed portion.

Page	FORMER				NEW			
82	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
			*** EXPLODED VIEWS ***				*** EXPLODED VIEWS ***	
	4	1-769-978-11	WIRE (FLAT TYPE)(13 CORE)(160mm) (H771: US,CND,E2,AUS,MX,AR,TH/H771D)		4	1-751-086-11	WIRE (FLAT TYPE)(13 CORE)(180mm) (H771: US,CND,E2,AUS,MX,AR,TH/H771D)	
	4	1-773-010-11	WIRE (FLAT TYPE)(15 CORE)(160mm) (H771: AEP,UK,E3,G,IT,EE,CIS,EA,MY,HK,SP)		4	1-773-012-11	WIRE (FLAT TYPE)(15 CORE)(180mm) (H771: AEP,UK,E3,G,IT,EE,CIS,EA,MY,HK,SP)	
	* 5	A-4303-514-A	TCB BOARD, COMPLETE (H771: AEP,UK)		* 5	A-4303-552-A	TCB BOARD, COMPLETE (H771: AEP,UK)	
	* 5	A-4303-515-A	TCB BOARD, COMPLETE (H771: IT,G)		* 5	A-4303-553-A	TCB BOARD, COMPLETE (H771: IT,G)	
	* 5	A-4303-516-A	TCB BOARD, COMPLETE (H771: EE)		* 5	A-4303-554-A	TCB BOARD, COMPLETE (H771: EE)	
	9	1-776-166-11	WIRE (FLAT TYPE)(19 CORE)(300mm)		9	1-776-240-11	WIRE (FLAT TYPE)(19 CORE)(320mm)	
83	52	1-537-770-21	TERMINAL BOARD, GROUND		52	1-537-738-21	TERMINAL, EARTH	
	* 54	A-4389-176-A	MAIN BOARD, COMPLETE (H771: EE)		* 54	A-4390-837-A	MAIN BOARD, COMPLETE (H771: EE)	
	* 54	A-4389-929-A	MAIN BOARD, COMPLETE (H771: US,CND)		* 54	A-4389-929-A	MAIN BOARD, COMPLETE (H771: US)	
	* 54	A-4389-933-A	MAIN BOARD, COMPLETE (H771D)		* 54	A-4389-933-A	MAIN BOARD, COMPLETE (H771D: US)	
					* 54	A-4390-916-A	MAIN BOARD, COMPLETE (H771: CND)	
					* 54	A-4390-918-A	MAIN BOARD, COMPLETE (H771D: CND)	
	* 55	A-4389-932-A	POWER AMPLIFIER BOARD, COMPLETE (H771: US,CND/H771D)		* 55	A-4389-932-A	POWER AMPLIFIER BOARD, COMPLETE (H771: US)	
					* 55	A-4390-676-A	POWER AMPLIFIER BOARD, COMPLETE (H771: CND/H771D: CND)	
	⚠58	1-569-008-21	ADAPTER, CONVERSION 2P (H771: EA,MY,SP)		⚠58	1-569-008-11	ADAPTOR, CONVERSION 2P (H771: EA,SP)	

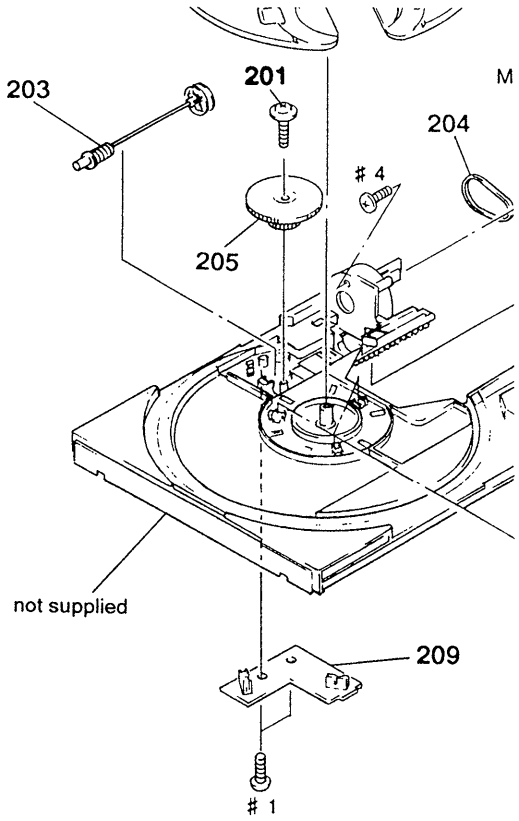
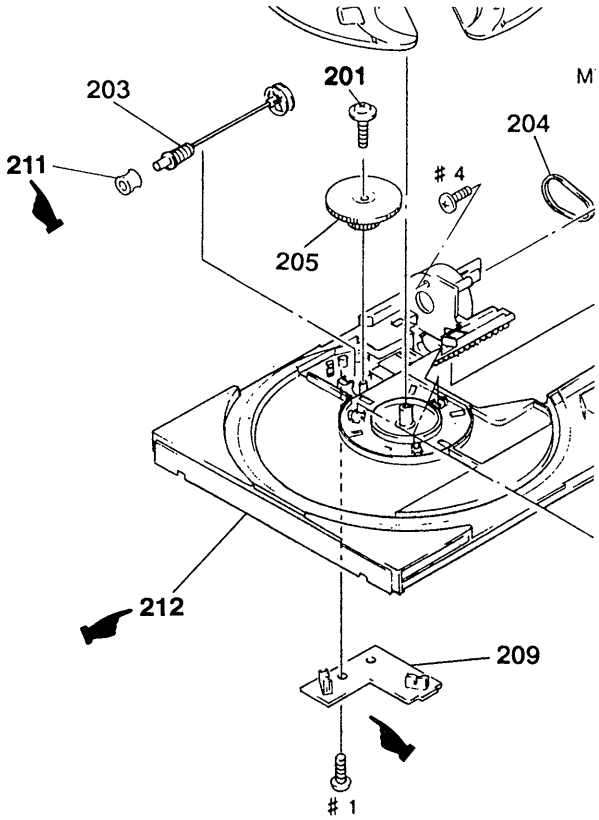




- Abbreviation

CND	: Canadian model	SP	: Singapore model
G	: German model	MY	: Malaysia model
IT	: Italian model	AUS	: Australian model
EE	: East European model	AR	: Argentine model
EA	: Saudi Arabia model	TH	: Thailand model
MX	: Mexican model	E2	: Without SW tuner model
HK	: Hong Kong model	E3	: With SW tuner model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

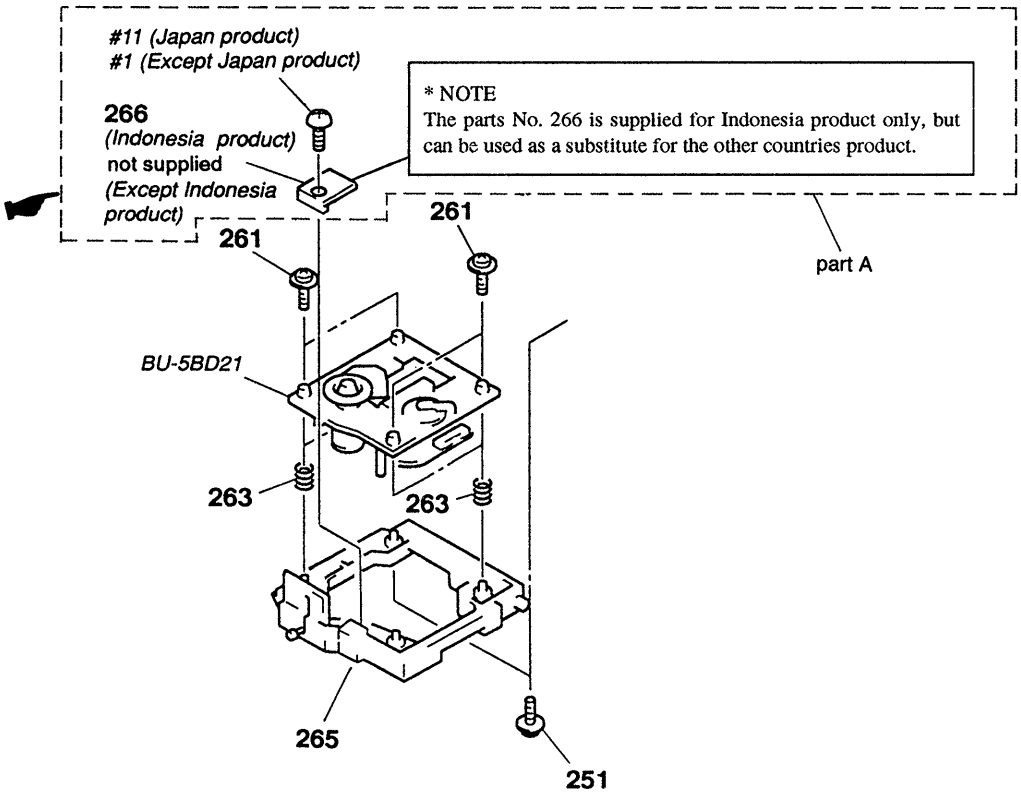
Page	FORMER	NEW
86		

Ref. No.	Part No.	Description	Remark
203	X-4946-665-2	SHAFT ASSY,WORM	
* 209	1-658-576-12	SENSOR BOARD	

Ref. No.	Part No.	Description	Remark
203	X-4946-665-1	SHAFT ASSY,WORM	
* 209	1-658-576-11	SENSOR BOARD	
211	4-981-187-01	COLLAR (WORM)	
212	4-977-944-01	TRAY (SLIDE)	

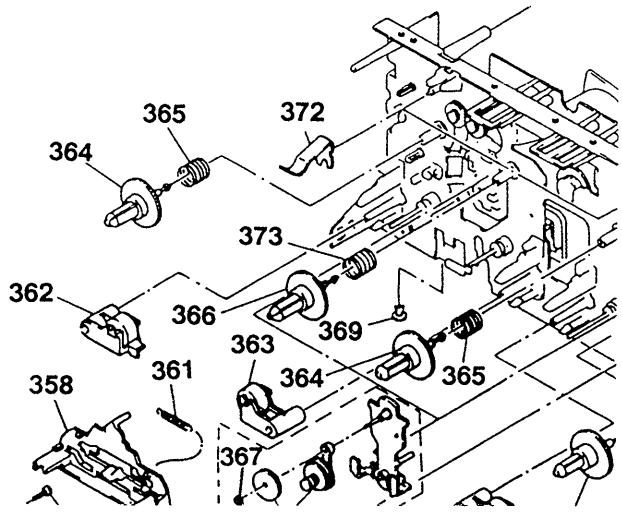
☛ : indicates changed portion.

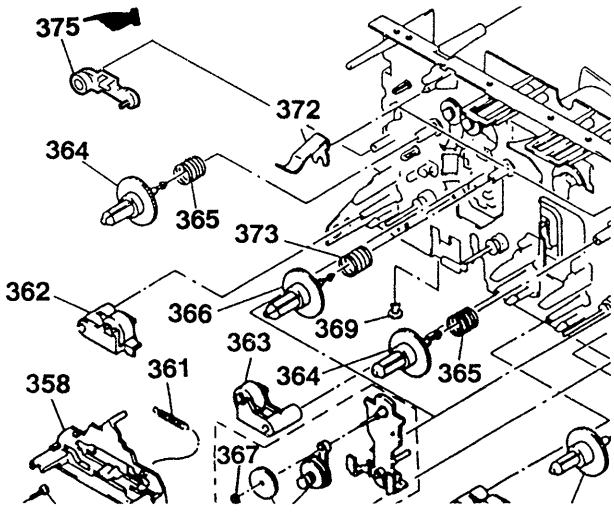
Page	FORMER	NEW
87	Ref. No. Part No. Description Remark	Ref. No. Part No. Description Remark



NOTE: The parts for part A were added as shown in the above temporaily, but they are not needed any more because "4-933-134-01 SCREW (+PTPWH M2.6 x 6)" of No. 261 has changed to "4-985-672-01 SCREW (+PTPWH M2.6 x 6), FLOATING".

251 4-917-583-21 BRACKET,YOKE 261 4-933-134-01 SCREW (+PTPWH M2.6x6)		251 4-917-583-71 BRACKET,YOKE 261 4-985-672-01 SCREW (+PTPWH M2.6x6), FLOATING
89	———	375 3-938-863-01 STOPPER





• Abbreviation

CND	: Canadian model	SP	: Singapore model
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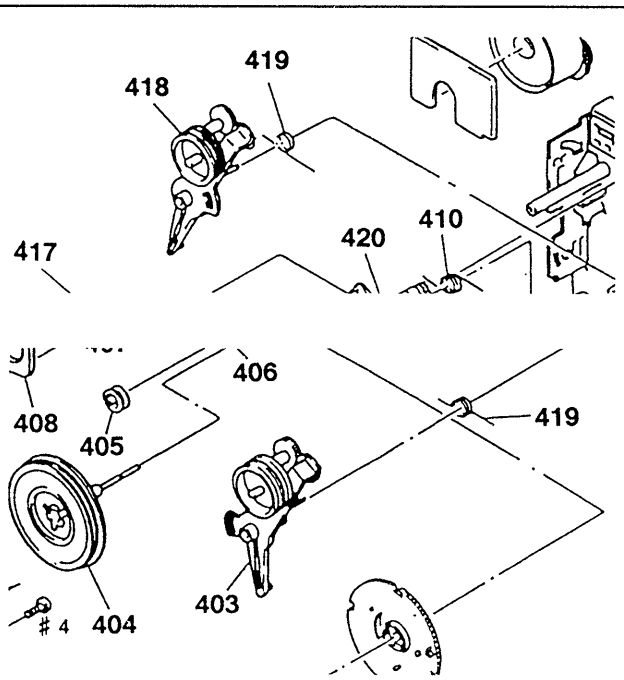
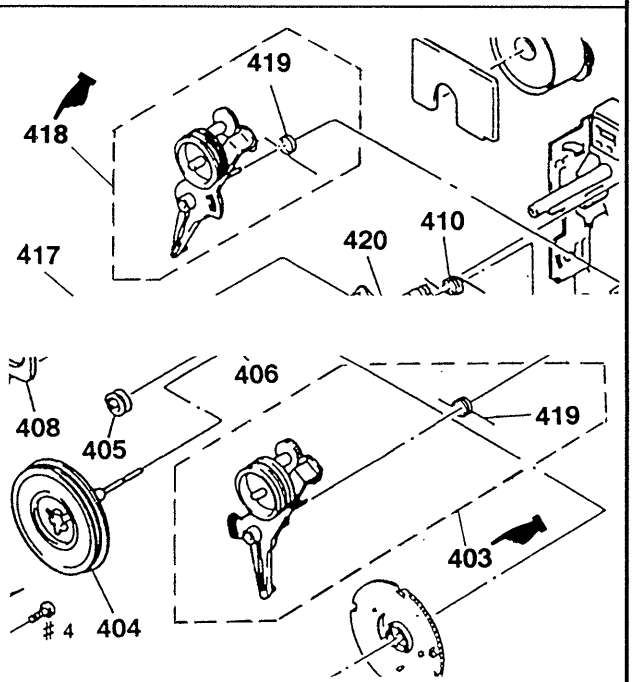
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

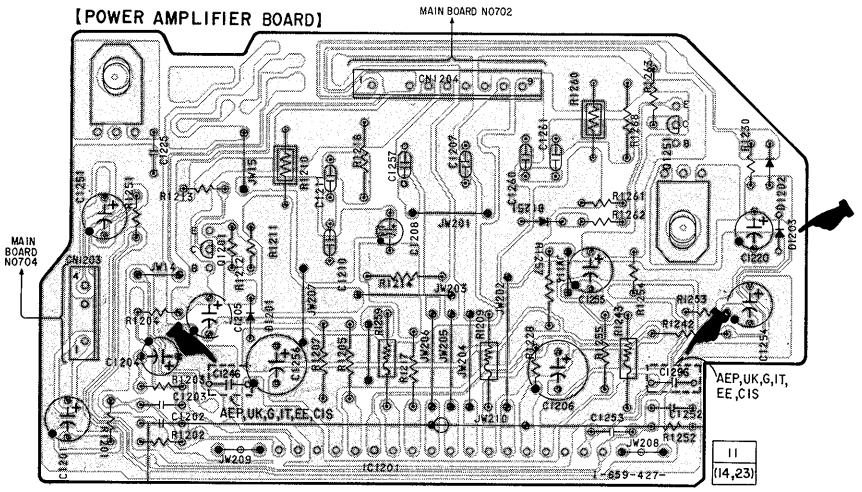
Page	FORMER	NEW
90		
	403 X-3367-590-2 ARM (A) ASSY, FR 418 X-3369-849-2 ARM (B) ASSY, FR	403 X-3372-930-1 ARM (A) ASSY, FR 418 X-3372-931-1 ARM (B) ASSY, FR

Page	FORMER					NEW				
	Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
93			*** ELECTRICAL PARTS LIST ***					*** ELECTRICAL PARTS LIST ***		
			*** HP BOARD ***					*** HP BOARD ***		
	C570	1-164-159-11	CERAMIC	0.1uF 5% 50V		C570	1-162-294-31	CERAMIC	0.001uF 10% 50V	
	C571	1-164-159-11	CERAMIC	0.1uF 5% 50V		C571	1-162-294-31	CERAMIC	0.001uF 10% 50V	
	C651	1-162-306-11	CERAMIC	0.01uF 30% 16V		C651	1-164-159-11	CERAMIC	0.1uF 50V	
	C652	1-162-306-11	CERAMIC	0.01uF 30% 16V		C652	1-164-159-11	CERAMIC	0.1uF 50V	
101			*** MD BOARD ***					*** MD BOARD ***		
	Q623	8-729-801-93	TRANSISTOR 2SD1387			Q623	8-729-030-18	TRANSISTOR 2SD2525		
113			*** MISCELLANEOUS ***					*** MISCELLANEOUS ***		
	4	1-769-978-11	WIRE (FLAT TYPE)(13 CORE)(160mm) (H771: US,CND,E2,AUS,MX,AR,TH/H771D)			4	1-751-086-11	WIRE (FLAT TYPE)(13 CORE)(180mm) (H771: US,CND,E2,AUS,MX,AR,TH/H771D)		
	4	1-773-010-11	WIRE (FLAT TYPE)(15 CORE)(160mm) (H771: AEP,UK,E3,G,IT,EE,CIS,EA,MY,HK,SP)			4	1-773-012-11	WIRE (FLAT TYPE)(15 CORE)(180mm) (H771: AEP,UK,E3,G,IT,EE,CIS,EA,MY,HK,SP)		
	9	1-776-166-11	WIRE (FLAT TYPE)(19 CORE)(300mm)			9	1-776-240-11	WIRE (FLAT TYPE)(19 CORE)(320mm)		
	52	1-537-770-21	TERMINAL BOARD, GROUND			52	1-537-738-21	TERMINAL, EARTH		
	⚠58	1-569-008-21	ADAPTER, CONVERSION 2P (H771: EA,MY,SP)			⚠58	1-569-008-11	ADAPTER, CONVERSION 2P (H771: EA,SP)		
			*** HARD WARE LIST ***					*** HARD WARE LIST ***		
	#2	7-682-548-04	SCREW +BVTT 3X8 (S)			#2	7-685-871-01	SCREW +BVTP 3X6 (S)		

5. CIRCUIT AND BOARD CHANGED

• In this section, the contents added in "6. MODEL ADDITION (H771 : Taiwan, Indonesian model)" are included.

: indicates changed portion.

<table>
<tr><th>Page</th><th colspan="2">NEW</th></tr>
<tr><td>60</td><td colspan="2">Location : I–L, 21–25
 
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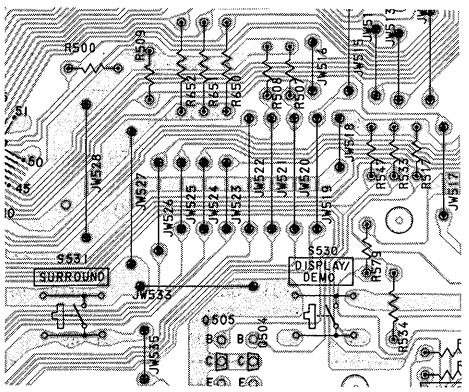
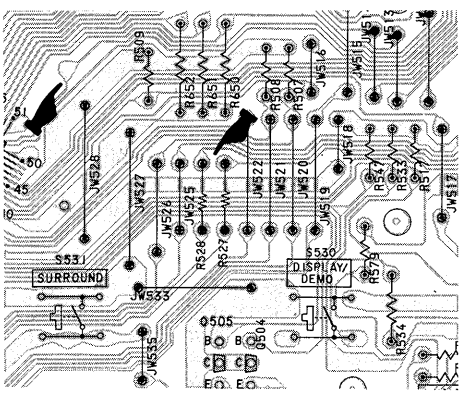
<tr><td></td><td>FORMER</td><td>NEW</td></tr>
<tr><td>76</td><td>[PANEL BOARD]
Location : D–E, 16–17
 
</td><td>[PANEL BOARD]
Location : D–E, 16–17
 
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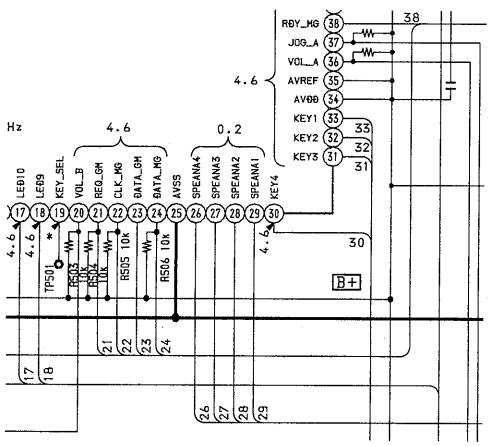
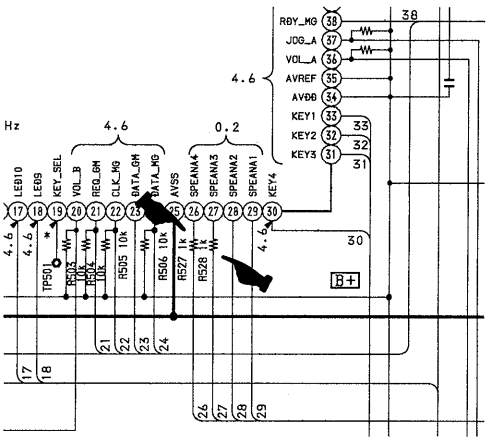
<tr><td>78</td><td>[PANEL BOARD]
Location : G–I, 12–13
 
</td><td>[PANEL BOARD]
Location : G–I, 12–13
 
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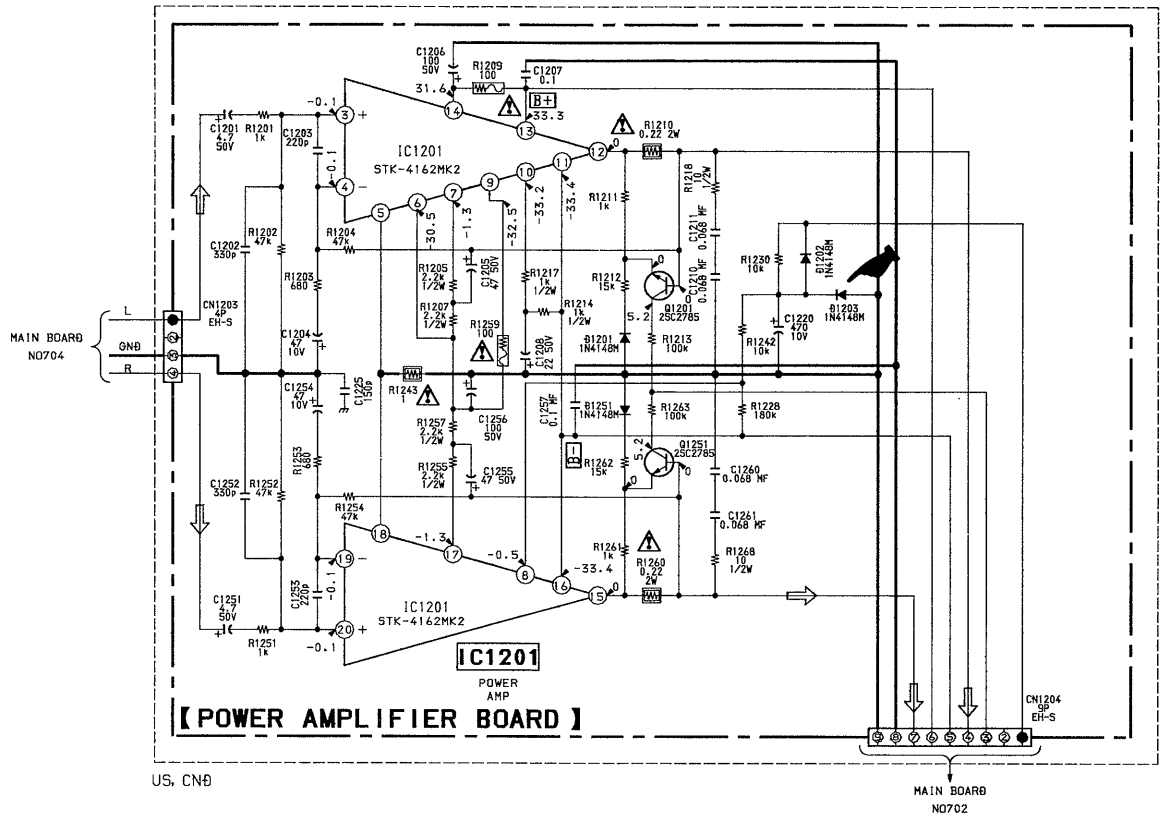
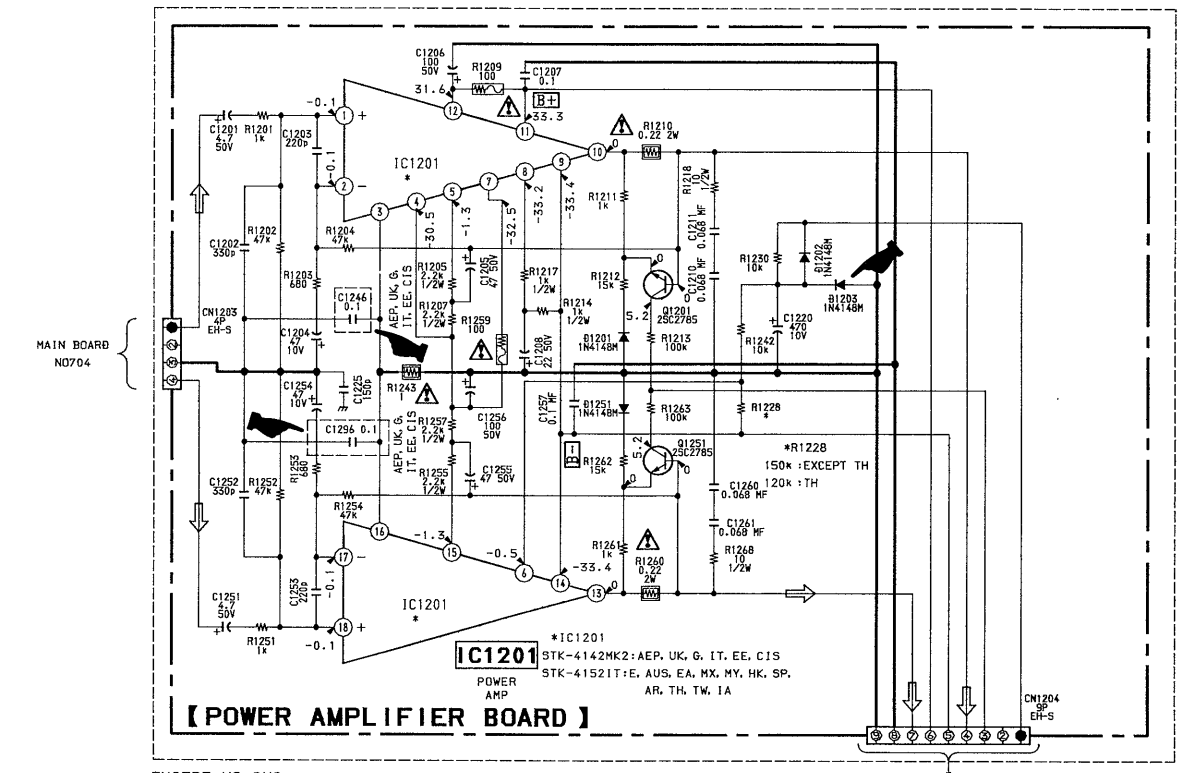
Page	NEW
63 to 65	Location : A–F, 19–33



US, CND



EXCEPT US, CND

☛ : indicates changed portion.

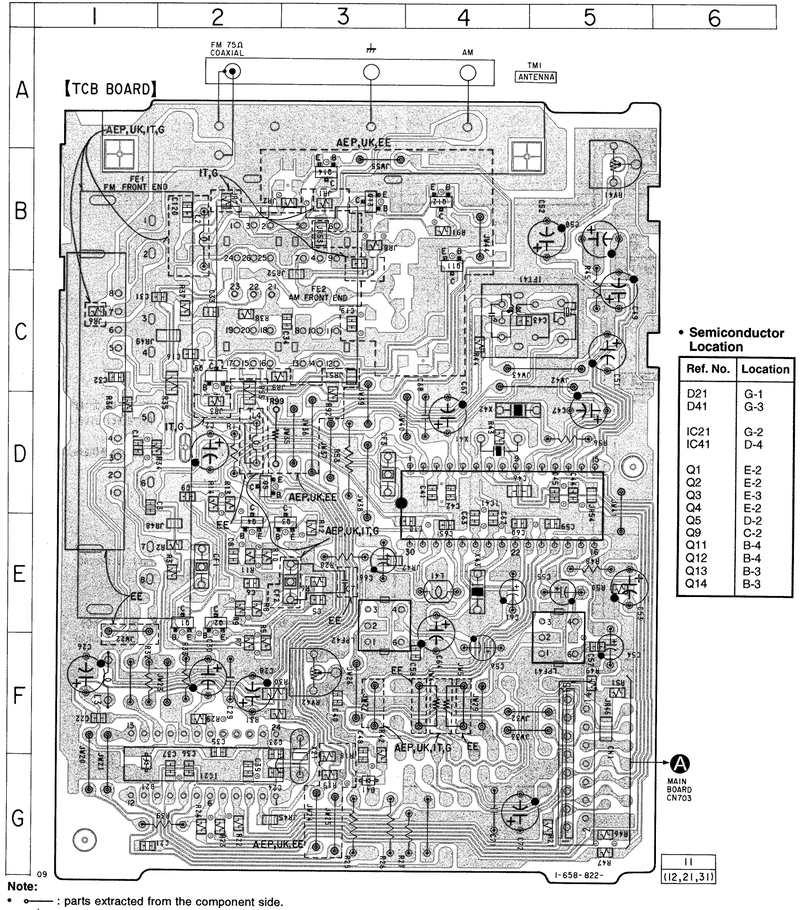
Page	FORMER							NEW						
103	Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
			*** ELECTRICAL PARTS LIST ***							*** ELECTRICAL PARTS LIST ***				
			*** PANEL BOARD ***							*** PANEL BOARD ***				
	C641	1-247-589-11	ELECT	47uF	20%	16V		C641	1-128-131-11	ELECT	22uF	20%	50V	
	D500	8-719-032-87	DIODE SEL5420E-TP15 (TUNER/BAND)					D500	8-719-058-03	DIODE SEL5423E-TP15 (TUNER/BAND)				
	R500	1-249-429-11	CARBON	10K	5%	1/4W								
								R527	1-249-417-11	CARBON	1K	5%	1/4W	F
								R528	1-249-417-11	CARBON	1K	5%	1/4W	F
104	R580	1-247-807-31	CARBON	100	5%	1/4W		R580	1-249-401-11	CARBON	47	5%	1/4W	F
106	*	A-4389-932-A	POWER AMPLIFIER BOARD, COMPLETE (H771: US, CND/H771D)					*	A-4389-932-A	POWER AMPLIFIER BOARD, COMPLETE (US)				
								*	A-4390-676-A	POWER AMPLIFIER BOARD, COMPLETE (CND)				
								C1246	1-164-159-11	CERAMIC	0.1uF		50V (AEP,UK,IT,EE,CIS)	
								C1296	1-164-159-11	CERAMIC	0.1uF		50V (AEP,UK,IT,EE,CIS)	
								D1203	8-719-987-63	DIODE 1N4148M				
	Q1201	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA					Q1201	8-729-119-78	TRANSISTOR 2SC2785-HFE				
	Q1251	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA					Q1251	8-729-119-78	TRANSISTOR 2SC2785-HFE				
	R1228	1-247-881-00	CARBON	120K	5%	1/4W		R1228	1-247-883-00	CARBON	150K	5%	1/4W (AEP,UK,G,IT,EE,CIS,E,AUS,EA,MX,MY,HK,SP,AR)	
								R1228	1-247-881-00	CARBON	120K	5%	1/4W (TH)	
								R1228	1-247-885-00	CARBON	180K	5%	1/4W (US,CND)	

- Abbreviation

CND	: Canadian model	HK	: Hong Kong model
G	: German model	SP	: Singapore model
IT	: Italian model	MY	: Malaysia model
EE	: East European model	AUS	: Australian model
EA	: Saudi Arabia model	AR	: Argentine model
MX	: Mexican model	TH	: Thailand model

TCB BOARD (AEP, UK, G, IT, EE MODEL)
• The TCB board was renewed with a change of parts, please look at this.

PRINTED WIRING BOARD

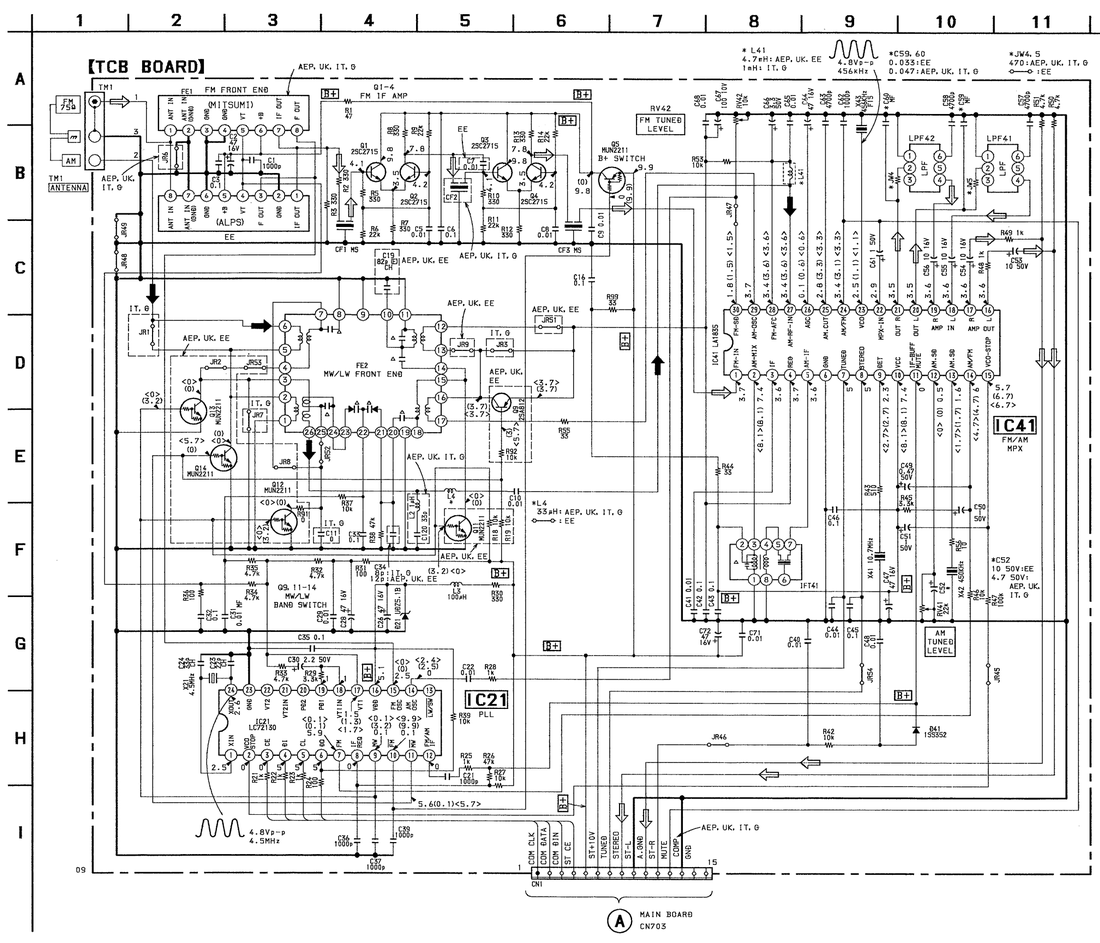


• Semiconductor Location

Ref. No.	Location
D21	G-1
D41	G-3
IC21	G-2
IC41	D-4
Q1	E-2
Q2	E-2
Q3	E-3
Q4	E-2
Q5	D-2
Q9	C-2
Q11	B-4
Q12	B-4
Q13	B-3
Q14	B-3

Note:
- ⟜—— : parts extracted from the component side.
- △ : Internal component.
- ▒▒▒ : Pattern from the side which enable seeing.
- Abbreviation
  G : German model.
  IT : Italian model.
  EE : East European model.

SCHEMATIC DIAGRAM

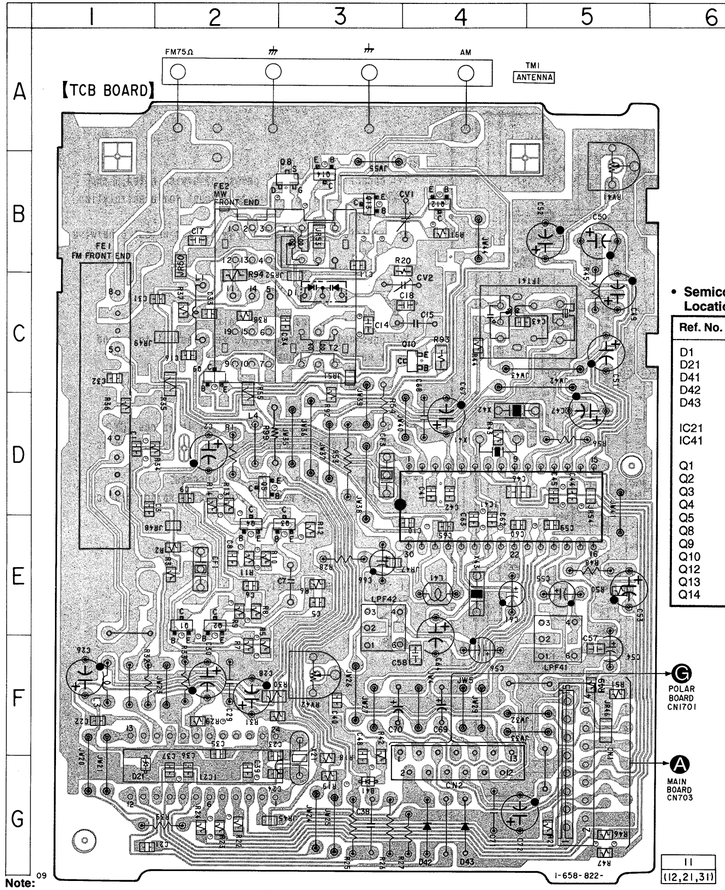


NOTE
- All capacitors are in μF unless noted.pF:μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ :internal component.
- ▭ :panel designation.
- B+ :B+ Line.
- ▭ :adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark:FM
  ( ):MW
  < >:LW
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  G :German model.
  IT :Italian model.
  EE :East European model.
- Signal path.
  ⇨ :FM
  ➡ :AM

TCB BOARD (CIS MODEL)

• The TCB board was renewed with a change of parts, please look at this.

PRINTED WIRING BOARD

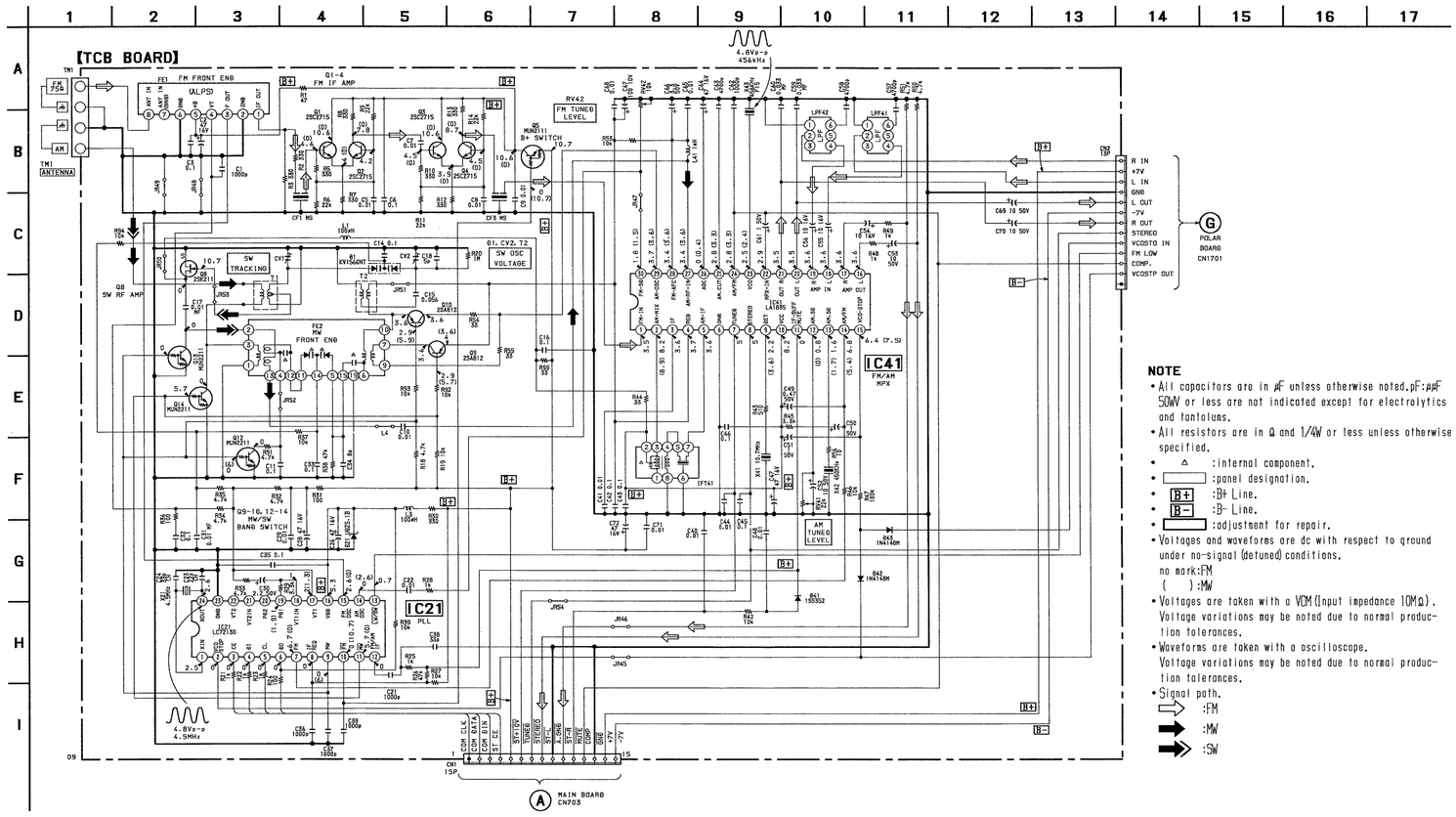


• Semiconductor Location

Ref. No.	Location
D1	C-3
D21	G-1
D41	G-3
D42	G-4
D43	G-4
IC21	G-2
IC41	E-5
Q1	E-2
Q2	E-2
Q3	E-3
Q4	E-2
Q5	E-2
Q8	B-3
Q9	C-2
Q10	C-4
Q12	B-4
Q13	B-3
Q14	B-3

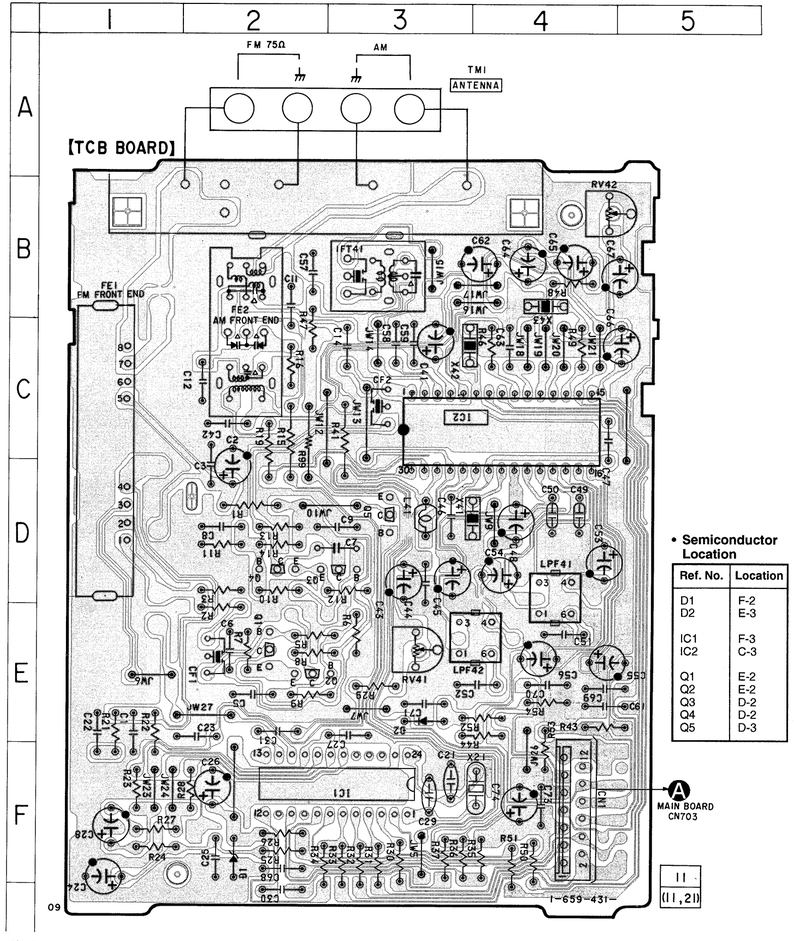
Note:
- ⟷ : parts extracted from the component side.
- △ : Internal component.
- ▒▒▒ : Pattern from the side which enable seeing.

SCHEMATIC DIAGRAM



NOTE
- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- B- : B- Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions. no mark: FM ( ) : MW
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path. ⇨ : FM ➡ : MW ➡ : SW

TCB BOARD (TH MODEL)
• The TCB board was renewed with a change of parts, please look at this.
PRINTED WIRING BOARD

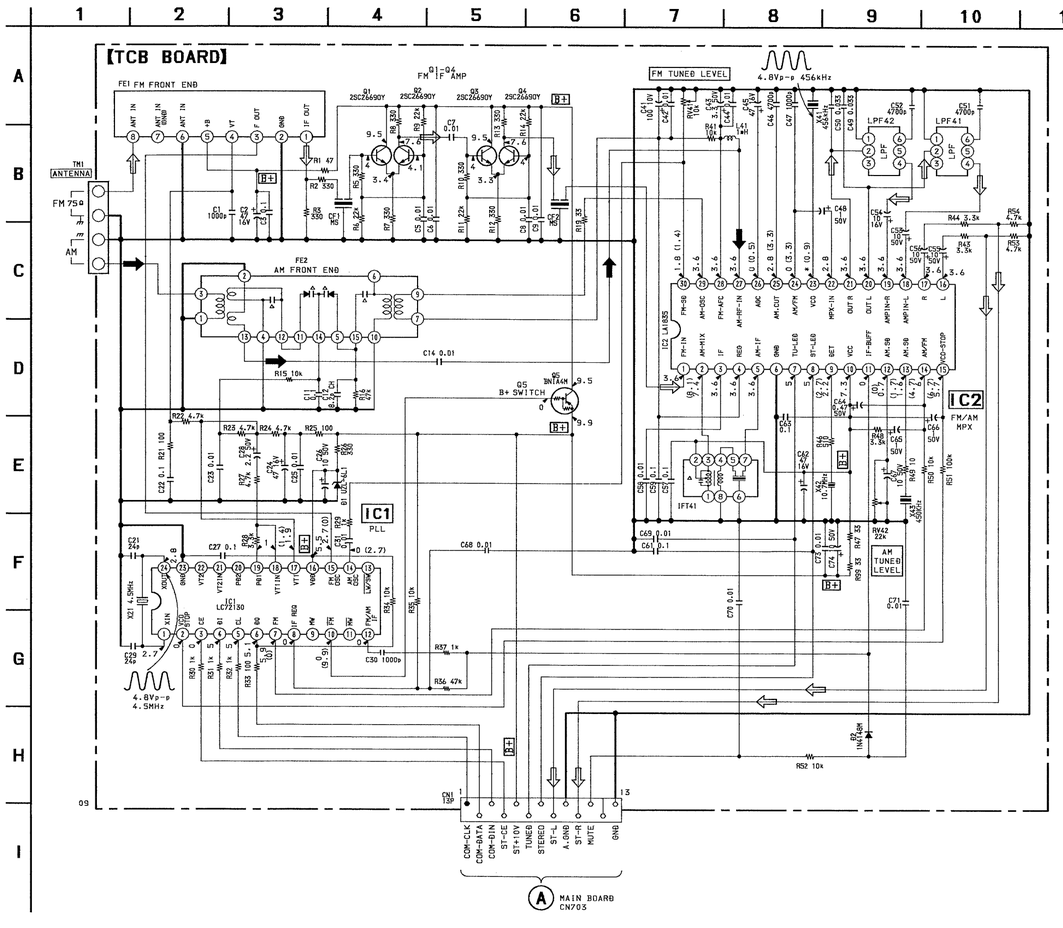


• Semiconductor Location

Ref. No.	Location
D1	F-2
D2	E-3
IC1	F-3
IC2	C-3
Q1	E-2
Q2	E-2
Q3	D-2
Q4	D-2
Q5	D-3

Note:
- ⟜—— : parts extracted from the component side.
- △ : Internal component.
- ▭ : Pattern from the side which enable seeing.
- Abbreviation
  TH : Thailand model.

SCHEMATIC DIAGRAM



NOTE
- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ :internal component.
- ▭ :panel designation.
- B+ :B+ Line.
- ▭ :adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
  ( ): AM
  * :can not be measured.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  TH :Thailand model.
- Signal path.
  ⇨ :FM
  ➡ :AM

MAIN BOARD

The contents of circuit have changed sharply due to the improvement of MAIN BOARD on this unit. Refer to the new contents of MAIN BOARD which are mentioned in this manual according to this change.

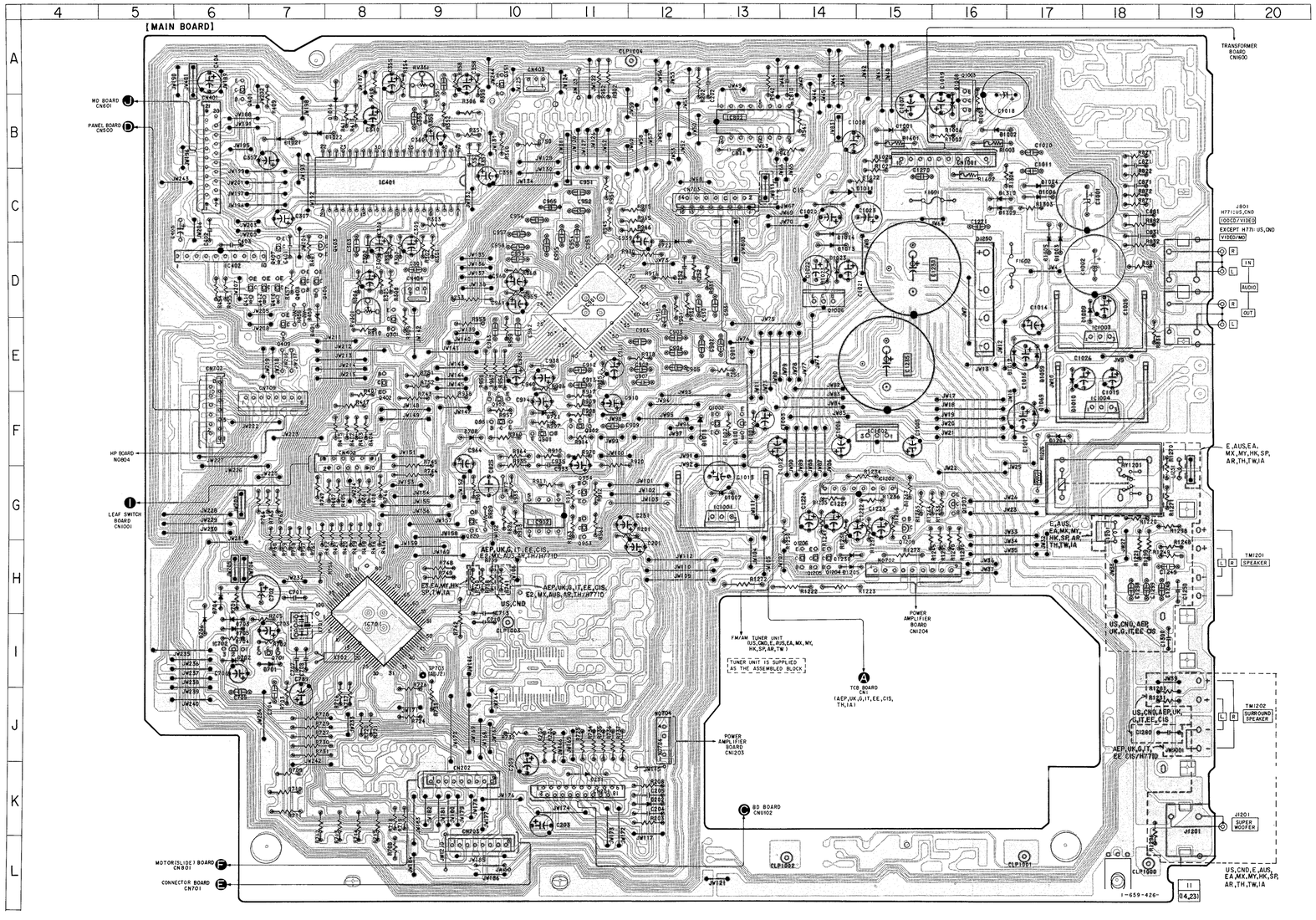
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D201	K-11	IC702	I-6
D202	K-12	IC802	B-13
D401	E-7	IC901	D-11
D701	I-7	IC902	G-10
D702	I-6	IC1001	G-13
D703	I-6	IC1002	F-15
D704	H-6	IC1003	E-18
D705	I-6	IC1004	F-18
D706	I-6	IC1202	G-15
D707	L-10		
D708	F-9	Q301	E-8
D721	F-10	Q351	A-10
D722	C-12	Q401	B-7
D1001	B-15	Q402	E-8
D1002	B-16	Q403	C-8
D1003	D-17	Q406	D-7
D1004	C-17	Q407	D-7
D1005	D-17	Q408	D-7
D1006	C-17	Q409	E-7
D1007	G-13	Q410	D-7
D1008	A-16	Q411	D-6
D1009	D-17	Q412	D-7
D1010	F-17	Q701	I-7
D1011	C-15	Q820	G-9
D1013	D-14	Q821	B-13
D1014	C-14	Q823	H-10
D1016	B-8	Q871	B-13
D1017	E-16	Q901	F-10
D1018	F-12	Q902	F-11
D1023	D-14	Q951	F-10
D1059	E-17	Q952	F-10
D1069	F-17	Q953	G-11
D1204	F-12	Q954	G-11
D1205	H-14	Q1001	F-13
D1230	H-14	Q1002	F-13
D1250	C-16	Q1003	A-16
D1309	C-16	Q1006	D-14
D1310	C-16	Q1204	H-14
		Q1205	H-14
IC401	C-8	Q1206	G-14
IC402	D-6	Q1207	G-16
IC701	I-8	Q1208	G-15

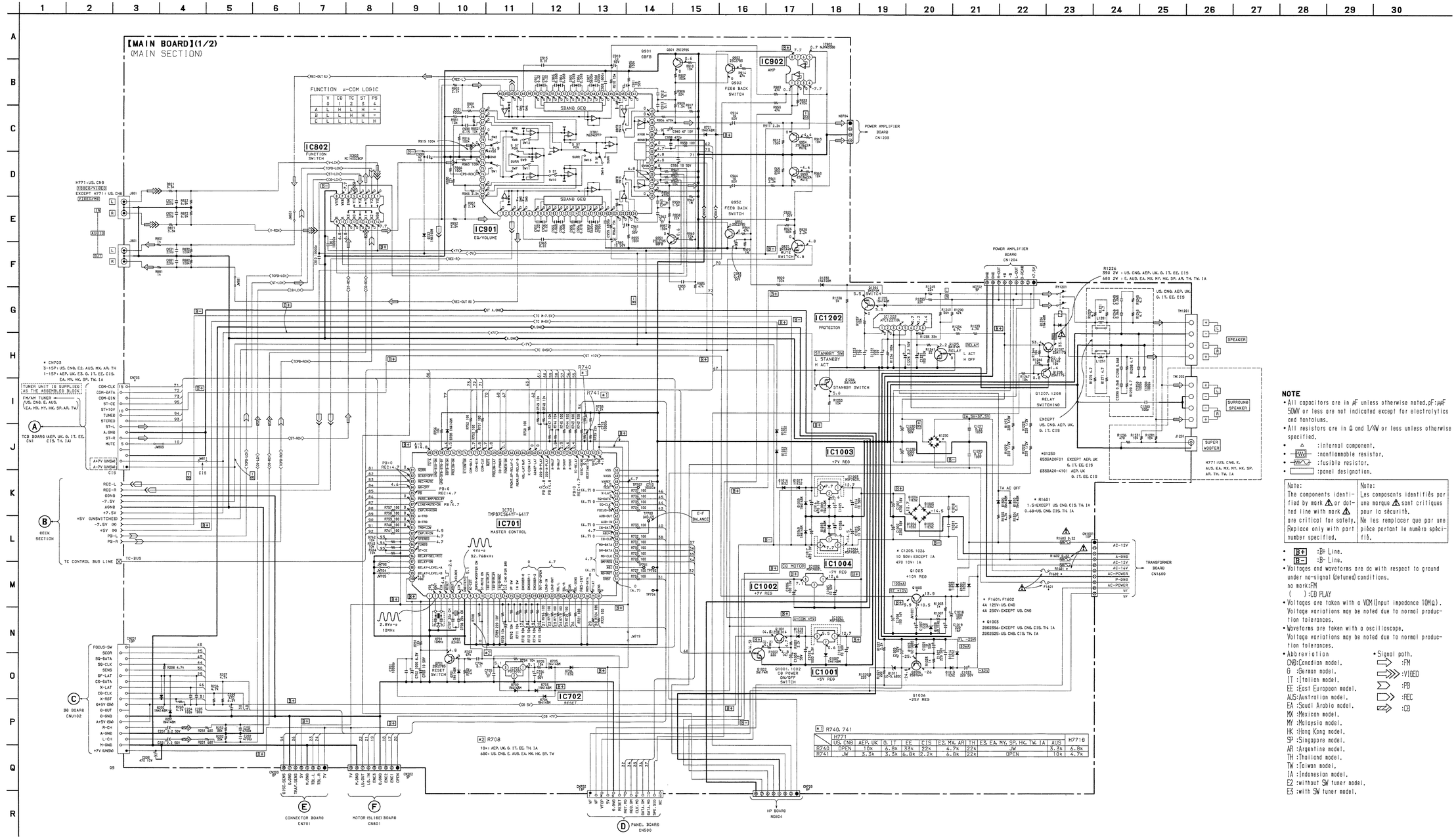
Note:

- ⊶ : parts extracted from the component side.
- △ : Internal component.
- ▨ : Pattern from the side which enable seeing.
- Abbreviation
  - CND : Canadian model.
  - G : German model.
  - IT : Italian model.
  - EE : East European model.
  - EA : Saudi Arabia model.
  - MX : Mexican model.
  - HK : Hong Kong model.
  - SP : Singapore model.
  - MY : Malaysia model.
  - TW : Taiwan model.
  - AUS : Australian model.
  - AR : Argentine model.
  - TH : Thailand model.
  - IA : Indonesian model.

PRINTED WIRING BOARD

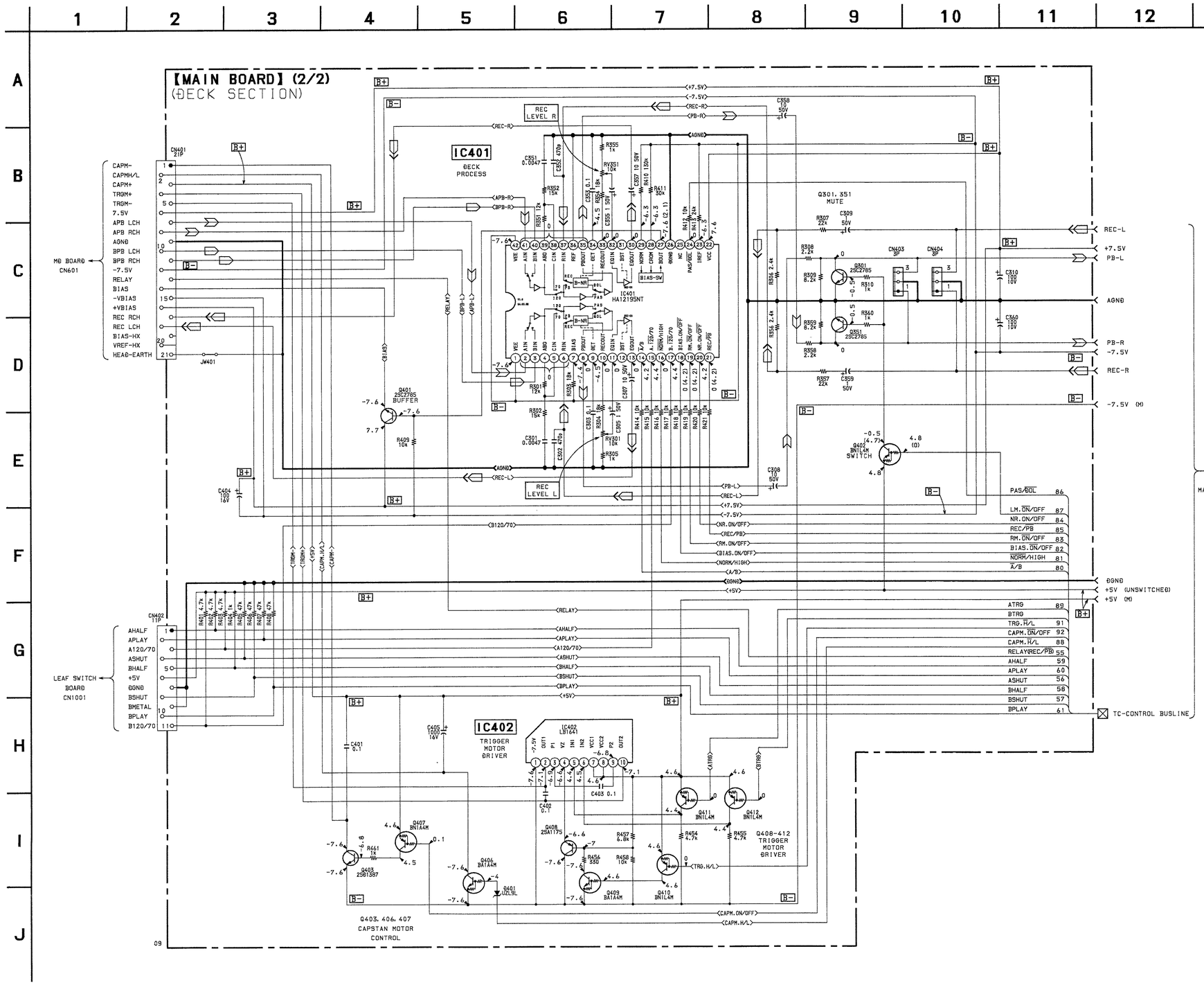


SCHEMATIC DIAGRAM — MAIN SECTION —


【MAIN BOARD】(1/2)
(MAIN SECTION)
FUNCTION μ-COM LOGIC
IC802
FUNCTION SWITCH
IC901
EQ/VOLUME
IC902
AMP
IC1202
PROTECTOR
IC1003
+7V REG
IC1004
+9V REG
IC1002
+5V REG
IC1001
+5V REG
IC1701
TMP87CS64FY-6417
IC701
MASTER CONTROL
IC702
RESET
POWER AMPLIFIER BOARD CN1204
SPEAKER
SURROUND SPEAKER
SUPER WOOFER
TRANSFORMER BOARD CN1600
TUNER UNIT IS SUPPLIED AS THE ASSEMBLED BLOCK.
FM/AM TUNER
(US, CND, E, AUS, EA, MX, MY, HK, SP, AR, TW)
TCB BOARD (AEP, UK, G, IT, EE, CIS, TH, IA)
DECK SECTION
TC CONTROL BUS LINE
TC-BUS
30 BOARD CNU102
CONNECTOR BOARD CN701
MOTOR (SLED) BOARD CN801
PANEL BOARD CN500
HP BOARD NO804
R740, 741
R708
NOTE
• All capacitors are in μF unless otherwise noted. pF: μμF
50WV or less are not indicated except for electrolytics and tantalums.
• All resistors are in Ω and 1/4W or less unless otherwise specified.
• △ : Internal component.
• : Nonflammable resistor.
• : Fusible resistor.
• : Panel designation.
Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.
Note: Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
• B+ : B+ Line.
• B− : B− Line.
• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark: FM
( ) : CD PLAY
• Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
• Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
• Abbreviation
CND: Canadian model.
G : German model.
IT : Italian model.
EE : East European model.
AUS: Australian model.
EA : Saudi Arabia model.
MX : Mexican model.
MY : Malaysia model.
HK : Hong Kong model.
SP : Singapore model.
AR : Argentine model.
TH : Thailand model.
TW : Taiwan model.
IA : Indonesian model.
E2 : without SW tuner model.
E3 : with SW tuner model.
• Signal path.
: FM
: VIDEO
: PB
: REC
: CD

SCHEMATIC DIAGRAM — DECK SECTION —

• See page 24 for printed wiring board (main board)



NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- B+ : B+ Line.
- B− : B− Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: PLAY
  ( ): REC
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  - : PB (DECK A)
  - : PB (DECK B)
  - : REC (DECK B)

ELECTRICAL PARTS LIST

MAIN

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μ A..., uPA...: μ PA..., uPB...: μ PB..., uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  CND : Canadian model
  G : German model
  IT : Italian model
  EE : East European model
  EA : Saudi Arabia model
  MX : Mexican model
  HK : Hong Kong model
  SP : Singapore model
  MY : Malaysia model
  AUS : Australian model
  AR : Argentine model
  IA : Indonesia model
  TH : Thailand model
  E2 : Without SW tuner model
  E3 : With SW tuner model

Ref. No.	Part No.	Description	Remark
*	A-4389-173-A	MAIN BOARD, COMPLETE (AEP,UK)	
		**********	
*	A-4389-175-A	MAIN BOARD, COMPLETE (G,IT)	
		**********	
*	A-4389-177-A	MAIN BOARD, COMPLETE (CIS)	
		**********	
*	A-4389-178-A	MAIN BOARD, COMPLETE (E2,MX,AR)	
		**********	
*	A-4389-180-A	MAIN BOARD, COMPLETE (E3,EA,MY,HK,SP,TW)	
		**********	
*	A-4390-499-A	MAIN BOARD, COMPLETE (IA)	
		**********	
*	A-4390-653-A	MAIN BOARD, COMPLETE (AUS)	
		**********	
*	A-4389-775-A	MAIN BOARD, COMPLETE (TH)	
		**********	
	A-4390-837-A	MAIN BOARD, COMPLETE (EE)	
		**********	
*	A-4390-916-A	MAIN BOARD, COMPLETE (H771:CND)	
		**********	
*	A-4390-918-A	MAIN BOARD, COMPLETE (H771D:CND)	
		**********	
*	A-4389-929-A	MAIN BOARD, COMPLETE (H771:US)	
		**********	
*	A-4389-933-A	MAIN BOARD, COMPLETE (H771D:US)	
		**********	
*	1-537-738-21	TERMINAL, EARTH	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
		< CAPACITOR >	
C201	1-124-925-11	ELECT 2.2uF 20% 100V	
C202	1-162-600-11	CERAMIC 0.0047uF 30% 16V	
C203	1-124-472-11	ELECT 470uF 20% 10V	
C204	1-162-282-31	CERAMIC 100PF 10% 50V	
C205	1-162-282-31	CERAMIC 100PF 10% 50V	
C209	1-126-941-11	ELECT 470uF 20% 6.3V	
C251	1-124-925-11	ELECT 2.2uF 20% 100V	
C252	1-162-600-11	CERAMIC 0.0047uF 30% 16V	
C301	1-130-479-00	MYLAR 0.0047uF 5% 50V	
C302	1-162-290-31	CERAMIC 470PF 10% 50V	
C303	1-136-165-00	FILM 0.1uF 5% 50V	
C305	1-124-903-11	ELECT 1uF 20% 50V	
C307	1-126-964-11	ELECT 10uF 20% 50V	
C308	1-126-964-11	ELECT 10uF 20% 50V	
C309	1-124-903-11	ELECT 1uF 20% 50V	
C310	1-126-933-11	ELECT 100uF 20% 10V	
C351	1-130-479-00	MYLAR 0.0047uF 5% 50V	
C352	1-162-290-31	CERAMIC 470PF 10% 50V	
C353	1-136-165-00	FILM 0.1uF 5% 50V	
C355	1-124-903-11	ELECT 1uF 20% 50V	
C357	1-126-964-11	ELECT 10uF 20% 50V	
C358	1-126-964-11	ELECT 10uF 20% 50V	
C359	1-124-903-11	ELECT 1uF 20% 50V	
C360	1-126-933-11	ELECT 100uF 20% 10V	
C401	1-164-159-11	CERAMIC 0.1uF 50V	
C402	1-164-159-11	CERAMIC 0.1uF 50V	
C403	1-164-159-11	CERAMIC 0.1uF 50V	
C404	1-126-933-11	ELECT 100uF 20% 16V	
C405	1-126-952-11	ELECT 1000uF 20% 16V	
C701	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C702	1-126-916-11	ELECT 1000uF 20% 6.3V	
C703	1-126-964-11	ELECT 10uF 20% 50V	
C704	1-136-165-00	FILM 0.1uF 5% 50V	
C705	1-136-165-00	FILM 0.1uF 5% 50V	
C706	1-126-965-11	ELECT 22uF 20% 50V	
C707	1-162-206-31	CERAMIC 20PF 5% 50V	
C708	1-162-206-31	CERAMIC 20PF 5% 50V	
C710	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C713	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C789	1-126-923-11	ELECT 220uF 20% 10V	
C810	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C811	1-162-306-11	CERAMIC 0.01uF 30% 16V	
C821	1-162-286-31	CERAMIC 220PF 10% 50V	
C825	1-109-889-11	ELECT 1uF 20% 50V	
C831	1-162-286-31	CERAMIC 220PF 10% 50V	
C871	1-162-286-31	CERAMIC 220PF 10% 50V	

MAIN

Ref. No.	Part No.	Description			Remark
C881	1-162-286-31	CERAMIC	220PF	10%	50V
C901	1-136-169-00	FILM	0.22uF	5%	50V
C902	1-136-169-00	FILM	0.22uF	5%	50V
C903	1-136-495-11	FILM	0.068uF	5%	50V
C904	1-136-495-11	FILM	0.068uF	5%	50V
C905	1-130-486-00	MYLAR	0.018uF	10%	50V
C906	1-130-486-00	MYLAR	0.018uF	10%	50V
C907	1-130-480-00	MYLAR	0.0056uF	5%	50V
C908	1-130-479-00	MYLAR	0.0047uF	5%	50V
C909	1-130-474-00	MYLAR	0.0018uF	5%	50V
C910	1-126-964-11	ELECT	10uF	20%	50V
C911	1-126-964-11	ELECT	10uF	20%	50V
C912	1-136-165-00	FILM	0.1uF	5%	50V
C913	1-130-495-00	MYLAR	0.1uF	5%	50V
C914	1-126-964-11	ELECT	10uF	20%	50V
C915	1-130-483-00	MYLAR	0.01uF	5%	50V
C930	1-130-497-00	MYLAR	0.15uF	5%	50V
C931	1-130-471-00	MYLAR	0.001uF	5%	50V
C933	1-124-902-00	ELECT	0.47uF	20%	50V
C935	1-164-159-11	CERAMIC	0.1uF		50V
C936	1-126-964-11	ELECT	10uF	20%	50V
C938	1-162-290-31	CERAMIC	470PF	10%	50V
C939	1-126-967-11	ELECT	47uF	20%	10V
C940	1-126-967-11	ELECT	47uF	20%	10V
C951	1-136-169-00	FILM	0.22uF	5%	50V
C952	1-136-169-00	FILM	0.22uF	5%	50V
C953	1-136-495-11	FILM	0.068uF	5%	50V
C954	1-136-495-11	FILM	0.068uF	5%	50V
C955	1-130-486-00	MYLAR	0.018uF	10%	50V
C956	1-130-486-00	MYLAR	0.018uF	10%	50V
C957	1-130-480-00	MYLAR	0.0056uF	5%	50V
C958	1-130-479-00	MYLAR	0.0047uF	5%	50V
C959	1-130-474-00	MYLAR	0.0018uF	5%	50V
C960	1-126-964-11	ELECT	10uF	20%	50V
C961	1-126-964-11	ELECT	10uF	20%	50V
C962	1-130-495-00	MYLAR	0.1uF	5%	50V
C963	1-130-495-00	MYLAR	0.1uF	5%	50V
C964	1-126-964-11	ELECT	10uF	20%	50V
C965	1-130-483-00	MYLAR	0.01uF	5%	50V
C1001	1-126-937-11	ELECT	4700uF	20%	16V
C1002	1-126-768-11	ELECT	2200uF	20%	16V
C1003	1-126-964-11	ELECT	10uF	20%	50V
C1005	1-126-964-11	ELECT	10uF	20%	50V
C1006	1-126-933-11	ELECT	100uF	20%	10V
C1007	1-126-934-11	ELECT	220uF	20%	16V
C1008	1-126-933-11	ELECT	100uF	20%	16V
C1010	1-136-165-00	FILM	0.1uF	5%	50V
C1011	1-130-495-00	MYLAR	0.1uF	5%	50V
C1012	1-126-964-11	ELECT	10uF	20%	50V
C1013	1-126-916-11	ELECT	1000uF	20%	6.3V
C1014	1-126-964-11	ELECT	10uF	20%	50V
C1015	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C1016	1-126-925-11	ELECT	470uF	20%	10V
C1017	1-126-925-11	ELECT	470uF	20%	10V
C1018	1-126-942-61	ELECT	1000uF	20%	25V
C1019	1-126-934-11	ELECT	220uF	20%	16V
C1020	1-126-967-11	ELECT	47uF	20%	50V
C1021	1-126-964-11	ELECT	10uF	20%	50V
C1022	1-126-969-11	ELECT	220uF	20%	50V
C1023	1-126-969-11	ELECT	220uF	20%	50V
C1025	1-126-925-11	ELECT	470uF	20%	10V (IA)
C1025	1-126-964-11	ELECT	10uF	20%	50V (EXCEPT IA)
C1026	1-126-925-11	ELECT	470uF	20%	10V (IA)
C1026	1-126-964-11	ELECT	10uF	20%	50V (EXCEPT IA)
C1221	1-126-933-11	ELECT	100uF	20%	10V
C1222	1-126-923-11	ELECT	220uF	20%	10V
C1223	1-126-923-11	ELECT	220uF	20%	10V
C1224	1-124-925-11	ELECT	2.2uF	20%	100V
C1230	1-126-974-11	ELECT	3300uF	20%	50V
C1235	1-126-974-11	ELECT	3300uF	20%	50V
C1248	1-136-495-11	FILM	0.068uF	5%	50V (US,CND,AEP,UK,G,IT,EE,CIS)
C1249	1-136-495-11	FILM	0.068uF	5%	50V (US,CND,AEP,UK,G,IT,EE,CIS)
C1250	1-162-294-31	CERAMIC	0.001uF	10%	50V (US,CND,AEP,UK,G,IT,EE,CIS)
C1270	1-130-781-00	FILM	0.22uF	10%	100V
C1271	1-130-781-00	FILM	0.22uF	10%	100V
C1280	1-162-282-31	CERAMIC	100PF	10%	50V (US,CND,AEP,UK,G,IT,EE,CIS)
C1298	1-136-495-11	FILM	0.068uF	5%	50V (US,CND,AEP,UK,G,IT,EE,CIS)
C1299	1-136-495-11	FILM	0.068uF	5%	50V (US,CND,AEP,UK,G,IT,EE,CIS)
C1300	1-162-294-31	CERAMIC	0.001uF	10%	50V (US,CND,AEP,UK,G,IT,EE,CIS)

< CONNECTOR >

	CN201	1-770-067-11	CONNECTOR, FFC/FPC 19P
	CN401	1-695-344-11	PIN, CONNECTOR (PC BOARD) 21P
	CN402	1-695-334-11	PIN, CONNECTOR (PC BOARD) 11P
*	CN403	1-568-449-11	HOUSING, CONNECTOR(PC BOARD)3P
*	CN404	1-568-449-11	HOUSING, CONNECTOR(PC BOARD)3P
*	CN702	1-568-832-11	SOCKET, CONNECTOR 13P (EXCEPT AEP,UK,G,IT,EE,CIS)
*	CN702	1-695-336-31	PIN, CONNECTOR (PC BOARD) 13P (AEP,UK,G,IT,EE,CIS)
*	CN703	1-568-834-11	SOCKET, CONNECTOR 15P (AEP,UK,G,IT,EE,CIS,E3,EA,MY,HK,SP,TW,IA)
*	CN703	1-568-832-11	SOCKET, CONNECTOR 13P (US,CND,E2,AUS,MX,AR,TH)
*	CN709	1-568-935-11	PIN, CONNECTOR 8P

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D201	8-719-987-63	DIODE 1N4148M	
D202	8-719-987-63	DIODE 1N4148M	
D401	8-719-933-54	DIODE HZS9A2L	
D701	8-719-987-63	DIODE 1N4148M	
D702	8-719-987-63	DIODE 1N4148M	
D703	8-719-987-63	DIODE 1N4148M	
D704	8-719-987-63	DIODE 1N4148M	
D705	8-719-987-63	DIODE 1N4148M	
D706	8-719-024-99	DIODE 11ES2-NTA2B	(E,AUS,CIS,EA,MX,MY,HK,SP,AR,TW)
D706	8-719-200-82	DIODE 11ES2 (US,CND,AEP,UK,G,IT,EE,TH,IA)	
D708	8-719-987-63	DIODE 1N4148M	
D721	8-719-987-63	DIODE 1N4148M	
D722	8-719-987-63	DIODE 1N4148M	
D1001	8-719-024-99	DIODE 11ES2-NTA2B	(E,AUS,CIS,EA,MX,MY,HK,SP,AR,TW)
D1001	8-719-200-82	DIODE 11ES2 (US,CND,AEP,UK,G,IT,EE,TH,IA)	
D1002	8-719-024-99	DIODE 11ES2-NTA2B	(E,AUS,CIS,EA,MX,MY,HK,SP,AR,TW)
D1002	8-719-200-82	DIODE 11ES2 (US,CND,AEP,UK,G,IT,EE,TH,IA)	
D1003	8-719-024-99	DIODE 11ES2-NTA2B	(E,AUS,CIS,EA,MX,MY,HK,SP,AR,TW)
D1003	8-719-200-82	DIODE 11ES2 (US,CND,AEP,UK,G,IT,EE,TH,IA)	
D1004	8-719-024-99	DIODE 11ES2-NTA2B	(E,AUS,CIS,EA,MX,MY,HK,SP,AR,TW)
D1004	8-719-200-82	DIODE 11ES2 (US,CND,AEP,UK,G,IT,EE,TH,IA)	
D1005	8-719-024-99	DIODE 11ES2-NTA2B	(E,AUS,CIS,EA,MX,MY,HK,SP,AR,TW)
D1005	8-719-200-82	DIODE 11ES2 (US,CND,AEP,UK,G,IT,EE,TH,IA)	
D1006	8-719-024-99	DIODE 11ES2-NTA2B	(E,AUS,CIS,EA,MX,MY,HK,SP,AR,TW)
D1006	8-719-200-82	DIODE 11ES2 (US,CND,AEP,UK,G,IT,EE,TH,IA)	
D1007	8-719-987-63	DIODE 1N4148M	
D1008	8-719-001-42	DIODE UZL-11M1	(E,AUS,CIS,EA,MX,MY,HK,SP,AR,TW)
D1008	8-719-001-43	DIODE UZL-11M1-TA	(US,CND,AEP,UK,G,IT,EE,TH,IA)
D1009	8-719-987-63	DIODE 1N4148M	
D1010	8-719-987-63	DIODE 1N4148M	
D1011	8-719-010-43	DIODE UZ-5.6BSC	
D1013	8-719-024-99	DIODE 11ES2-NTA2B	(E,AUS,CIS,EA,MX,MY,HK,SP,AR,TW)
D1013	8-719-200-82	DIODE 11ES2 (US,CND,AEP,UK,G,IT,EE,TH,IA)	
D1014	8-719-024-99	DIODE 11ES2-NTA2B	(E,AUS,CIS,EA,MX,MY,HK,SP,AR,TW)
D1014	8-719-200-82	DIODE 11ES2 (US,CND,AEP,UK,G,IT,EE,TH,IA)	
D1016	8-719-024-99	DIODE 11ES2-NTA2B	(E,AUS,CIS,EA,MX,MY,HK,SP,AR,TW)
D1016	8-719-200-82	DIODE 11ES2 (US,CND,AEP,UK,G,IT,EE,TH,IA)	
D1017	8-719-024-99	DIODE 11ES2-NTA2B	(E,AUS,CIS,EA,MX,MY,HK,SP,AR,TW)
D1017	8-719-200-82	DIODE 11ES2 (US,CND,AEP,UK,G,IT,EE,TH,IA)	
D1018	8-719-024-99	DIODE 11ES2-NTA2B	(E,AUS,CIS,EA,MX,MY,HK,SP,AR,TW)
D1018	8-719-200-82	DIODE 11ES2 (US,CND,AEP,UK,G,IT,EE,TH,IA)	
D1021	8-719-024-99	DIODE 11ES2-NTA2B	(E,AUS,CIS,EA,MX,MY,HK,SP,AR,TW)
D1021	8-719-200-82	DIODE 11ES2 (US,CND,AEP,UK,G,IT,EE,TH,IA)	
D1022	8-719-024-99	DIODE 11ES2-NTA2B	(E,AUS,CIS,EA,MX,MY,HK,SP,AR,TW)
D1022	8-719-200-82	DIODE 11ES2 (US,CND,AEP,UK,G,IT,EE,TH,IA)	
D1023	8-719-011-10	DIODE UZ-30BS-TA	
D1059	8-719-987-63	DIODE 1N4148M	
D1069	8-719-987-63	DIODE 1N4148M	
D1204	8-719-987-63	DIODE 1N4148M	
D1205	8-719-987-63	DIODE 1N4148M	
D1230	8-719-987-63	DIODE 1N4148M	
D1250	8-719-028-23	DIODE D3SBA20-4101 (AEP,UK,G,IT,EE,CIS)	
D1250	8-719-510-68	DIODE D5SBA20F01	(EXCEPT AEP,UK,G,IT,EE,CIS)
D1309	8-719-987-63	DIODE 1N4148M	
D1310	8-719-987-63	DIODE 1N4148M	
		< FUSE HOLDER >	
FH1001	1-533-217-31	HOLDER, FUSE	
FH1002	1-533-217-31	HOLDER, FUSE	
FH1003	1-533-217-31	HOLDER, FUSE	
FH1004	1-533-217-31	HOLDER, FUSE	
		< IC >	
IC401	8-759-289-38	IC HA12195NT	
IC402	8-759-822-09	IC LB1641	
IC701	8-759-398-86	IC TMP87CS64YF-6417	
IC702	8-759-165-80	IC PST600C-T	
IC802	8-759-000-48	IC MC14052BCP	
IC901	8-759-331-39	IC M62427FP	
IC902	8-759-634-51	IC M5218AP	
IC1001	8-759-231-53	IC TA7805S	
IC1002	8-759-604-86	IC M5F7807L	
IC1003	8-759-604-86	IC M5F7807L	
IC1004	8-759-604-90	IC M5F7907L	
IC1202	8-759-111-68	IC uPC1237HA	
		< JACK >	
J801	1-695-188-31	JACK, PIN 4P (100CD/VIDEO)(H771:US,CND)	
J801	1-695-188-31	JACK, PIN 4P (VIDEO/MD)	(EXCEPT H771:US,CND)
J1201	1-774-785-11	JACK, PIN 1P (SUPER WOOFER)	(H771: US,CND,E,AUS,EA,MX,MY,HK,SP,AR,TH,TW,IA)
		< COIL >	
L1201	1-420-872-00	COIL, AIR-CORE (US,CND,AEP,UK,G,IT,EE,CIS)	
L1251	1-420-872-00	COIL, AIR-CORE (US,CND,AEP,UK,G,IT,EE,CIS)	
		< TRANSISTOR >	
Q301	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q351	8-729-119-78	TRANSISTOR 2SC2785-HFE	

MAIN

Ref. No.	Part No.	Description	Remark
Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q402	8-729-900-65	TRANSISTOR DTA144ES	
Q403	8-729-801-93	TRANSISTOR 2SD1387	
Q406	8-729-900-80	TRANSISTOR DTC114ES	
Q407	8-729-422-57	TRANSISTOR UN4111	
Q408	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q409	8-729-900-80	TRANSISTOR DTC114ES	
Q410	8-729-900-65	TRANSISTOR DTA144ES	
Q411	8-729-900-65	TRANSISTOR DTA144ES	
Q412	8-729-900-65	TRANSISTOR DTA144ES	
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q820	8-729-422-57	TRANSISTOR UN4111	
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q902	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q951	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q952	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q953	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q954	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q1001	8-729-118-01	TRANSISTOR 2SB1116	
Q1002	8-729-900-36	TRANSISTOR DTC124ES	
Q1003	8-729-021-82	TRANSISTOR 2SD2396K	(EXCEPT US,CND,CIS,TH,IA)
Q1003	8-729-030-18	TRANSISTOR 2SD2525 (US,CND,CIS,TH,IA)	
Q1006	8-729-030-19	TRANSISTOR 2SB1640	
Q1204	8-729-900-63	TRANSISTOR DTA124ES	
Q1205	8-729-900-36	TRANSISTOR DTC124ES	
Q1206	8-729-900-80	TRANSISTOR DTC114ES	
Q1207	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1208	8-729-119-76	TRANSISTOR 2SA1175-HFE	

< RESISTOR >

Ref. No.	Part No.	Description			Remark
R201	1-249-415-11	CARBON	680	5%	1/4W F
R202	1-249-435-11	CARBON	33K	5%	1/4W
R203	1-249-425-11	CARBON	4.7K	5%	1/4W F
R206	1-249-425-11	CARBON	4.7K	5%	1/4W F
R207	1-249-425-11	CARBON	4.7K	5%	1/4W F
R208	1-249-425-11	CARBON	4.7K	5%	1/4W F
R251	1-249-415-11	CARBON	680	5%	1/4W F
R252	1-249-435-11	CARBON	33K	5%	1/4W
R301	1-249-430-11	CARBON	12K	5%	1/4W
R302	1-249-431-11	CARBON	15K	5%	1/4W
R303	1-249-432-11	CARBON	18K	5%	1/4W
R304	1-249-432-11	CARBON	18K	5%	1/4W F
R305	1-249-417-11	CARBON	1K	5%	1/4W F
R306	1-247-840-00	CARBON	2.4K	5%	1/4W
R307	1-249-433-11	CARBON	22K	5%	1/4W
R308	1-249-421-11	CARBON	2.2K	5%	1/4W F
R309	1-249-428-11	CARBON	8.2K	5%	1/4W F
R310	1-249-417-11	CARBON	1K	5%	1/4W F
R351	1-249-430-11	CARBON	12K	5%	1/4W
R352	1-249-431-11	CARBON	15K	5%	1/4W
R354	1-249-432-11	CARBON	18K	5%	1/4W F
R355	1-249-417-11	CARBON	1K	5%	1/4W F
R356	1-247-840-00	CARBON	2.4K	5%	1/4W
R357	1-249-433-11	CARBON	22K	5%	1/4W
R358	1-249-421-11	CARBON	2.2K	5%	1/4W F
R359	1-249-428-11	CARBON	8.2K	5%	1/4W F
R360	1-249-417-11	CARBON	1K	5%	1/4W F
R401	1-249-425-11	CARBON	4.7K	5%	1/4W F
R402	1-249-425-11	CARBON	4.7K	5%	1/4W F
R403	1-249-425-11	CARBON	4.7K	5%	1/4W F
R404	1-249-417-11	CARBON	1K	5%	1/4W F
R405	1-249-437-11	CARBON	47K	5%	1/4W
R406	1-249-437-11	CARBON	47K	5%	1/4W
R407	1-249-437-11	CARBON	47K	5%	1/4W
R408	1-249-437-11	CARBON	47K	5%	1/4W
R409	1-249-429-11	CARBON	10K	5%	1/4W
R410	1-247-882-11	CARBON	130K	5%	1/4W
R411	1-247-866-11	CARBON	30K	5%	1/4W
R412	1-249-429-11	CARBON	10K	5%	1/4W
R413	1-247-864-11	CARBON	24K	5%	1/4W
R414	1-249-429-11	CARBON	10K	5%	1/4W
R415	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-429-11	CARBON	10K	5%	1/4W
R417	1-249-429-11	CARBON	10K	5%	1/4W
R418	1-249-429-11	CARBON	10K	5%	1/4W
R419	1-249-429-11	CARBON	10K	5%	1/4W
R420	1-249-429-11	CARBON	10K	5%	1/4W
R421	1-249-429-11	CARBON	10K	5%	1/4W
R454	1-249-425-11	CARBON	4.7K	5%	1/4W F
R455	1-249-425-11	CARBON	4.7K	5%	1/4W F
R456	1-249-411-11	CARBON	330	5%	1/4W
R457	1-249-427-11	CARBON	6.8K	5%	1/4W F
R458	1-249-429-11	CARBON	10K	5%	1/4W
R461	1-249-417-11	CARBON	1K	5%	1/4W F
R701	1-249-429-11	CARBON	10K	5%	1/4W
R702	1-249-437-11	CARBON	47K	5%	1/4W
R703	1-249-437-11	CARBON	47K	5%	1/4W
R704	1-249-429-11	CARBON	10K	5%	1/4W
R705	1-249-429-11	CARBON	10K	5%	1/4W
R708	1-249-429-11	CARBON	10K	5%	1/4W (AEP,UK,G,IT,EE,CIS,TH,IA)
R708	1-249-415-11	CARBON	680	5%	1/4W F (EXCEPT AEP,UK,G,IT,EE,CIS,TH,IA)
R709	1-249-429-11	CARBON	10K	5%	1/4W
R710	1-249-429-11	CARBON	10K	5%	1/4W
R711	1-249-429-11	CARBON	10K	5%	1/4W
R712	1-249-429-11	CARBON	10K	5%	1/4W
R713	1-249-429-11	CARBON	10K	5%	1/4W
R714	1-249-429-11	CARBON	10K	5%	1/4W
R715	1-249-429-11	CARBON	10K	5%	1/4W
R716	1-247-807-31	CARBON	100	5%	1/4W
R717	1-247-807-31	CARBON	100	5%	1/4W
R718	1-247-807-31	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description			Remark
R719	1-247-807-31	CARBON	100	5%	1/4W
R720	1-247-807-31	CARBON	100	5%	1/4W
R721	1-247-807-31	CARBON	100	5%	1/4W
R724	1-247-807-31	CARBON	100	5%	1/4W
R725	1-247-807-31	CARBON	100	5%	1/4W
R726	1-247-807-31	CARBON	100	5%	1/4W
R727	1-247-807-31	CARBON	100	5%	1/4W
R728	1-247-807-31	CARBON	100	5%	1/4W
R729	1-247-807-31	CARBON	100	5%	1/4W
R730	1-247-807-31	CARBON	100	5%	1/4W
R731	1-247-807-31	CARBON	100	5%	1/4W
R732	1-247-807-31	CARBON	100	5%	1/4W
R733	1-247-807-31	CARBON	100	5%	1/4W
R734	1-247-807-31	CARBON	100	5%	1/4W
R735	1-247-807-31	CARBON	100	5%	1/4W
R736	1-247-807-31	CARBON	100	5%	1/4W
R737	1-247-807-31	CARBON	100	5%	1/4W
R738	1-249-421-11	CARBON	2.2K	5%	1/4W F
R739	1-249-433-11	CARBON	22K	5%	1/4W
R740	1-247-843-11	CARBON	3.3K	5%	1/4W (AUS)
R740	1-247-863-91	CARBON	22K	5%	1/4W (TH)
R740	1-249-425-11	CARBON	4.7K	5%	1/4W F (E2,MX,AR)
R740	1-249-427-11	CARBON	6.8K	5%	1/4W F (G,IT/H771D)
R740	1-249-429-11	CARBON	10K	5%	1/4W (AEP,UK)
R740	1-249-433-11	CARBON	22K	5%	1/4W (CIS)
R740	1-249-435-11	CARBON	33K	5%	1/4W (EE)
R741	1-247-843-11	CARBON	3.3K	5%	1/4W (AEP,UK,G,IT)
R741	1-247-863-91	CARBON	22K	5%	1/4W (TH)
R741	1-249-421-11	CARBON	2.2K	5%	1/4W F (CIS)
R741	1-249-425-11	CARBON	4.7K	5%	1/4W F (H771D)
R741	1-249-427-11	CARBON	6.8K	5%	1/4W F (E2,EE,MX,AR)
R741	1-249-429-11	CARBON	10K	5%	1/4W (AUS)
R742	1-247-807-31	CARBON	100	5%	1/4W
R743	1-247-807-31	CARBON	100	5%	1/4W
R744	1-247-807-31	CARBON	100	5%	1/4W
R745	1-247-807-31	CARBON	100	5%	1/4W
R746	1-249-429-11	CARBON	10K	5%	1/4W
R747	1-249-429-11	CARBON	10K	5%	1/4W
R748	1-249-429-11	CARBON	10K	5%	1/4W
R749	1-249-429-11	CARBON	10K	5%	1/4W
R750	1-247-807-31	CARBON	100	5%	1/4W
R751	1-247-807-31	CARBON	100	5%	1/4W
R752	1-247-807-31	CARBON	100	5%	1/4W
R753	1-247-807-31	CARBON	100	5%	1/4W
R756	1-249-429-11	CARBON	10K	5%	1/4W
R757	1-247-807-31	CARBON	100	5%	1/4W
R758	1-247-807-31	CARBON	100	5%	1/4W
R759	1-247-807-31	CARBON	100	5%	1/4W
R760	1-247-807-31	CARBON	100	5%	1/4W
R761	1-247-807-31	CARBON	100	5%	1/4W
R762	1-249-429-11	CARBON	10K	5%	1/4W
R763	1-249-429-11	CARBON	10K	5%	1/4W
R764	1-249-429-11	CARBON	10K	5%	1/4W
R821	1-247-843-11	CARBON	3.3K	5%	1/4W
R822	1-249-427-11	CARBON	6.8K	5%	1/4W F
R826	1-249-441-11	CARBON	100K	5%	1/4W
R829	1-249-421-11	CARBON	2.2K	5%	1/4W F
R831	1-249-417-11	CARBON	1K	5%	1/4W F
R832	1-249-441-11	CARBON	100K	5%	1/4W
R871	1-247-843-11	CARBON	3.3K	5%	1/4W
R872	1-249-427-11	CARBON	6.8K	5%	1/4W F
R881	1-249-417-11	CARBON	1K	5%	1/4W F
R882	1-249-441-11	CARBON	100K	5%	1/4W
R901	1-249-421-11	CARBON	2.2K	5%	1/4W F
R902	1-249-421-11	CARBON	2.2K	5%	1/4W F
R903	1-249-437-11	CARBON	47K	5%	1/4W
R905	1-249-441-11	CARBON	100K	5%	1/4W
R906	1-247-895-00	CARBON	470K	5%	1/4W
R907	1-247-883-00	CARBON	150K	5%	1/4W
R908	1-249-433-11	CARBON	22K	5%	1/4W
R909	1-249-419-11	CARBON	1.5K	5%	1/4W F
R910	1-249-429-11	CARBON	10K	5%	1/4W
R911	1-249-421-11	CARBON	2.2K	5%	1/4W F
R912	1-249-441-11	CARBON	100K	5%	1/4W
R913	1-249-429-11	CARBON	10K	5%	1/4W
R914	1-249-437-11	CARBON	47K	5%	1/4W
R915	1-249-441-11	CARBON	100K	5%	1/4W
R916	1-249-441-11	CARBON	100K	5%	1/4W
R917	1-247-903-00	CARBON	1M	5%	1/4W
R918	1-249-429-11	CARBON	10K	5%	1/4W
R920	1-249-441-11	CARBON	100K	5%	1/4W
R930	1-249-433-11	CARBON	22K	5%	1/4W
R931	1-249-433-11	CARBON	22K	5%	1/4W
R932	1-249-429-11	CARBON	10K	5%	1/4W
R933	1-247-895-00	CARBON	470K	5%	1/4W
R935	1-249-437-11	CARBON	47K	5%	1/4W
R938	1-247-807-31	CARBON	100	5%	1/4W
R940	1-249-429-11	CARBON	10K	5%	1/4W
R941	1-249-429-11	CARBON	10K	5%	1/4W
R942	1-249-429-11	CARBON	10K	5%	1/4W
R945	1-249-421-11	CARBON	2.2K	5%	1/4W F
R951	1-249-421-11	CARBON	2.2K	5%	1/4W F
R952	1-249-421-11	CARBON	2.2K	5%	1/4W F

MAIN **TCB**

Ref. No.	Part No.	Description			Remark
R953	1-249-437-11	CARBON	47K	5%	1/4W
R955	1-249-441-11	CARBON	100K	5%	1/4W
R956	1-247-895-00	CARBON	470K	5%	1/4W
R957	1-247-883-00	CARBON	150K	5%	1/4W
R958	1-249-433-11	CARBON	22K	5%	1/4W
R959	1-249-419-11	CARBON	1.5K	5%	1/4W F
R960	1-249-429-11	CARBON	10K	5%	1/4W
R961	1-249-421-11	CARBON	2.2K	5%	1/4W F
R962	1-249-441-11	CARBON	100K	5%	1/4W
R963	1-249-429-11	CARBON	10K	5%	1/4W
R964	1-249-437-11	CARBON	47K	5%	1/4W
R965	1-249-441-11	CARBON	100K	5%	1/4W
R966	1-249-441-11	CARBON	100K	5%	1/4W
R967	1-247-903-00	CARBON	1M	5%	1/4W
R968	1-249-429-11	CARBON	10K	5%	1/4W
R970	1-247-903-00	CARBON	1M	5%	1/4W
R1001	1-249-421-11	CARBON	2.2K	5%	1/4W F
R1002	1-249-409-11	CARBON	220	5%	1/4W F
R1003	1-249-417-11	CARBON	1K	5%	1/4W F
R1007	1-249-417-11	CARBON	1K	5%	1/4W F
R1020	1-249-409-11	CARBON	220	5%	1/4W F
R1021	1-249-409-11	CARBON	220	5%	1/4W F
R1022	1-249-421-11	CARBON	2.2K	5%	1/4W F
R1023	1-249-417-11	CARBON	1K	5%	1/4W F
R1220	1-249-389-11	CARBON	4.7	5%	1/4W F
			(US,CND,AEP,UK,G,IT,EE,CIS)		
R1221	1-249-389-11	CARBON	4.7	5%	1/4W F
			(US,CND,AEP,UK,G,IT,EE,CIS)		
R1222	1-260-091-11	CARBON	220	5%	1/2W
R1223	1-260-091-11	CARBON	220	5%	1/2W
⚠R1226	1-215-891-11	METAL OXIDE	680	5%	2W F
			(E,AUS,EA,MX,MY,HK,SP,AR,TH,TW,IA)		
⚠R1226	1-216-454-11	METAL OXIDE	390	5%	2W F
			(US,CND,AEP,UK,G,IT,EE,CIS)		
R1231	1-249-429-11	CARBON	10K	5%	1/4W F
			(EXCEPT H771:AEP,UK,G,IT,EE,CIS/H771D)		
R1233	1-249-425-11	CARBON	4.7K	5%	1/4W F
R1234	1-249-425-11	CARBON	4.7K	5%	1/4W F
R1235	1-249-435-11	CARBON	33K	5%	1/4W
R1236	1-249-441-11	CARBON	100K	5%	1/4W
R1237	1-249-429-11	CARBON	10K	5%	1/4W
R1238	1-249-417-11	CARBON	1K	5%	1/4W F
R1240	1-249-438-11	CARBON	56K	5%	1/4W
R1241	1-249-397-11	CARBON	22	5%	1/4W F
R1245	1-249-433-11	CARBON	22K	5%	1/4W
R1248	1-249-389-11	CARBON	4.7	5%	1/4W F
			(US,CND,AEP,UK,G,IT,EE,CIS)		
R1249	1-249-389-11	CARBON	4.7	5%	1/4W F
			(US,CND,AEP,UK,G,IT,EE,CIS)		
R1250	1-249-429-11	CARBON	10K	5%	1/4W
R1264	1-249-429-11	CARBON	10K	5%	1/4W
R1265	1-249-429-11	CARBON	10K	5%	1/4W
R1266	1-249-429-11	CARBON	10K	5%	1/4W
R1267	1-249-429-11	CARBON	10K	5%	1/4W
R1270	1-249-389-11	CARBON	4.7	5%	1/4W F
			(US,CND,AEP,UK,G,IT,EE,CIS)		
R1271	1-249-389-11	CARBON	4.7	5%	1/4W F
			(US,CND,AEP,UK,G,IT,EE,CIS)		
R1272	1-260-091-11	CARBON	220	5%	1/2W
R1273	1-260-091-11	CARBON	220	5%	1/2W
R1281	1-249-429-11	CARBON	10K	5%	1/4W F
			(EXCEPT H771:AEP,UK,G,IT,EE,CIS/H771D)		
R1290	1-249-437-11	CARBON	47K	5%	1/4W
R1295	1-249-433-11	CARBON	22K	5%	1/4W
R1296	1-249-413-11	CARBON	470	5%	1/4W F
			(EXCEPT H771:AEP,UK,G,IT,EE,CIS/H771D)		
R1298	1-249-389-11	CARBON	4.7	5%	1/4W F
			(US,CND,AEP,UK,G,IT,EE,CIS)		
R1299	1-249-389-11	CARBON	4.7	5%	1/4W F
			(US,CND,AEP,UK,G,IT,EE,CIS)		
R1303	1-249-425-11	CARBON	4.7K	5%	1/4W F
R1304	1-249-425-11	CARBON	4.7K	5%	1/4W F
⚠R1601	1-217-638-00	FUSIBLE	1.5	5%	1/4W F
			(EXCEPT US,CND,CIS,TH,IA)		
⚠R1601	1-219-124-11	FUSIBLE	0.68	5%	1/4W F
			(US,CND,CIS,TH,IA)		
⚠R1602	1-219-121-11	FUSIBLE	0.22	5%	1/4W F
⚠R1603	1-219-121-11	FUSIBLE	0.22	5%	1/4W F
		< VARIABLE RESISTOR >			
RV301	1-238-600-11	RES, ADJ, CARBON 10K			
RV351	1-238-600-11	RES, ADJ, CARBON 10K			
		< RELAY >			
RY1201	1-515-920-11	RELAY (24V)			
		< TERMINAL >			
TM1201	1-537-240-31	TERMINAL BOARD (CHECKER PIN)(SPEAKER)			
TM1202	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (SURROUND SPEAKER) (EXCEPT H771:AEP,UK,G,IT,EE,CIS/H771D)			
		< VIBRATOR >			
X701	1-579-175-11	VIBRATOR, CERAMIC (10MHz)			
X702	1-567-098-41	VIBRATOR, CRYSTAL (32kHz)			
**********					
*	A-4303-517-A	TCB BOARD, COMPLETE (CIS)			
		**********			
		< CAPACITOR >			
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C2	1-126-967-11	ELECT	47uF	20%	16V
C3	1-163-038-91	CERAMIC CHIP	100000PF		25V
C5	1-163-031-11	CERAMIC CHIP	10000PF		50V
C6	1-163-038-91	CERAMIC CHIP	100000PF		25V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

TCB

Ref. No.	Part No.	Description			Remark
C7	1-101-004-00	CERAMIC	0.01uF		50V
C8	1-163-031-11	CERAMIC CHIP	10000PF		50V
C9	1-163-031-11	CERAMIC CHIP	10000PF		50V
C10	1-163-031-11	CERAMIC CHIP	10000PF		50V
C11	1-163-038-91	CERAMIC CHIP	100000PF		25V
C14	1-163-038-91	CERAMIC CHIP	100000PF		25V
C15	1-136-162-00	METALIZED FILM	0.056uF	5%	50V
C16	1-163-038-91	CERAMIC CHIP	100000PF		25V
C17	1-163-031-11	CERAMIC CHIP	10000PF		50V
C18	1-163-088-00	CERAMIC CHIP	5PF		50V
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C22	1-163-031-11	CERAMIC CHIP	10000PF		50V
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C26	1-126-967-11	ELECT	47uF	20%	50V
C28	1-126-967-11	ELECT	47uF	20%	50V
C29	1-162-306-11	CERAMIC	10000PF	20%	16V
C30	1-124-925-11	ELECT	2.2uF	20%	100V
C31	1-163-031-11	CERAMIC CHIP	10000PF		50V
C32	1-163-038-91	CERAMIC CHIP	100000PF		25V
C33	1-163-038-91	CERAMIC CHIP	100000PF		25V
C34	1-163-091-00	CERAMIC CHIP	8PF		50V
C35	1-163-038-91	CERAMIC CHIP	100000PF		25V
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C38	1-162-211-31	CERAMIC	33PF	5%	50V
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C40	1-163-031-11	CERAMIC CHIP	10000PF		50V
C41	1-163-031-11	CERAMIC CHIP	10000PF		50V
C42	1-163-038-91	CERAMIC CHIP	100000PF		25V
C43	1-163-038-91	CERAMIC CHIP	100000PF		25V
C44	1-163-031-11	CERAMIC CHIP	10000PF		50V
C45	1-163-038-91	CERAMIC CHIP	100000PF		25V
C46	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C47	1-126-967-11	ELECT	47uF	20%	50V
C48	1-163-031-11	CERAMIC CHIP	10000PF		50V
C49	1-124-902-00	ELECT	0.47uF	20%	50V
C50	1-124-903-11	ELECT	1.0uF	20%	50V
C51	1-124-903-11	ELECT	1.0uF	20%	50V
C52	1-126-964-11	ELECT	10uF	20%	50V
C53	1-126-964-11	ELECT	10uF	20%	50V
C54	1-104-396-11	ELECT	10uF	20%	16V
C55	1-104-396-11	ELECT	10uF	20%	16V
C56	1-104-396-11	ELECT	10uF	20%	16V
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C59	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C60	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C61	1-126-301-11	ELECT	1uF	20%	50V
C62	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C63	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C64	1-126-967-11	CAP, ELECT	47uF	20%	50V

Ref. No.	Part No.	Description			Remark
C65	1-163-031-11	CERAMIC CHIP	10000PF		50V
C66	1-126-162-11	ELECT	3.3uF	20%	50V
C67	1-126-933-11	ELECT	100uF	20%	16V
C68	1-162-306-11	CERAMIC	10000PF	20%	16V
C69	1-126-964-11	ELECT	10uF	20%	50V
C70	1-126-964-11	ELECT	10uF	20%	50V
C71	1-162-306-11	CERAMIC	10000PF	20%	16V
C72	1-126-967-11	ELECT	47uF	20%	50V
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC			
CF3	1-567-389-11	FILTER, CERAMIC			
		< CONNECTOR >			
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P			
* CN2	1-568-832-11	SOCKET, CONNECTOR 13P			
		< VARIABLE CAPACITOR >			
CV1	1-141-227-00	CAP, TRIMMER 20PF			
CV2	1-141-227-00	CAP, TRIMMER 20PF			
		< DIODE >			
D1	8-719-976-30	DIODE KV1560NT			
D21	8-719-976-99	DIODE DTZ5.1B			
D41	8-719-016-74	DIODE 1SS352			
D42	8-719-987-63	DIODE 1N4148M			
D43	8-719-987-63	DIODE 1N4148M			
		< FRONT END >			
FE1	1-693-335-11	FRONT END (3 GANG)			
FE2	1-239-262-11	ENCAPSULATED COMPONENT			
		< IC >			
IC21	8-759-288-54	IC LC72130			
IC41	8-759-176-03	IC LA1835			
		< IFT >			
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)			
		< JUMPER RESISTOR >			
JR45	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR46	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR47	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR48	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR49	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR50	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR51	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR52	1-216-295-91	METAL GLAZE	0	5%	1/10W
JR53	1-216-296-91	METAL GLAZE	0	5%	1/8W
JR54	1-216-295-91	METAL GLAZE	0	5%	1/10W

TCB

Ref. No.	Part No.	Description			Remark
		< COIL >			
L1	1-410-521-11	MICRO INDUCTOR 100uH			
L3	1-410-521-11	MICRO INDUCTOR 100uH			
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE) 1mH			
		< FILTER >			
LPF41	1-239-845-11	FILTER, LOW PASS			
LPF42	1-239-845-11	FILTER, LOW PASS			
		< TRANSISTOR >			
Q1	8-729-201-27	TRANSISTOR 2SC2715Y			
Q2	8-729-201-27	TRANSISTOR 2SC2715Y			
Q3	8-729-201-27	TRANSISTOR 2SC2715Y			
Q4	8-729-201-27	TRANSISTOR 2SC2715Y			
Q5	8-729-424-08	TRANSISTOR UN2111			
Q8	8-729-033-67	TRANSISTOR 2SK211-Y-TE85L			
Q9	8-729-216-22	TRANSISTOR 2SA812-T1-M5M6			
Q10	8-729-216-22	TRANSISTOR 2SA812-T1-M5M6			
Q12	8-729-421-22	TRANSISTOR UN2211			
Q13	8-729-421-22	TRANSISTOR UN2211			
Q14	8-729-421-22	TRANSISTOR UN2211			
		< RESISTOR >			
R1	1-249-401-11	CARBON	47	5%	1/4W
R2	1-216-037-00	METAL CHIP	330	5%	1/10W
R3	1-216-037-00	METAL CHIP	330	5%	1/10W
R5	1-216-037-00	METAL CHIP	330	5%	1/10W
R6	1-216-081-00	METAL CHIP	22K	5%	1/10W
R7	1-216-037-00	METAL CHIP	330	5%	1/10W
R8	1-216-037-00	METAL CHIP	330	5%	1/10W
R9	1-216-081-00	METAL CHIP	22K	5%	1/10W
R10	1-216-037-00	METAL CHIP	330	5%	1/10W
R11	1-216-081-00	METAL CHIP	22K	5%	1/10W
R12	1-216-037-00	METAL CHIP	330	5%	1/10W
R13	1-216-037-00	METAL CHIP	330	5%	1/10W
R14	1-216-081-00	METAL CHIP	22K	5%	1/10W
R18	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R19	1-216-073-00	METAL CHIP	10K	5%	1/10W
R20	1-216-121-91	METAL CHIP	1.0M	5%	1/10W
R21	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R22	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R23	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R24	1-216-025-91	METAL CHIP	100	5%	1/10W
R25	1-249-417-11	CARBON	1K	5%	1/4W
R26	1-249-437-11	CARBON	47K	5%	1/4W
R27	1-249-429-11	CARBON	10K	5%	1/4W
R28	1-249-417-11	CARBON	1K	5%	1/4W
R29	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R30	1-216-186-00	METAL CHIP	330	5%	1/8W
R31	1-216-025-91	METAL CHIP	100	5%	1/10W
R32	1-249-425-11	CARBON	4.7K	5%	1/4W
R33	1-249-425-11	CARBON	4.7K	5%	1/4W
R34	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R35	1-216-214-00	METAL CHIP	4.7K	5%	1/8W
R36	1-216-025-91	METAL CHIP	100	5%	1/10W
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W
R38	1-216-089-91	METAL CHIP	47K	5%	1/10W
R39	1-249-429-11	CARBON	10K	5%	1/4W
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W
R43	1-216-042-00	METAL CHIP	510	5%	1/10W
R44	1-216-013-00	METAL CHIP	33	5%	1/10W
R45	1-247-843-11	CARBON	3.3K	5%	1/4W
R46	1-216-073-00	METAL CHIP	10K	5%	1/10W
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W
R48	1-249-417-11	CARBON	1K	5%	1/4W
R49	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R53	1-249-429-11	CARBON	10K	5%	1/4W
R54	1-249-399-11	CARBON	33	5%	1/4W
R55	1-216-162-00	METAL CHIP	33	5%	1/10W
R56	1-249-393-11	CARBON	10	5%	1/4W
R91	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W
R93	1-216-073-00	METAL CHIP	10K	5%	1/10W
R94	1-216-073-00	METAL CHIP	10K	5%	1/10W
R99	1-249-399-11	CARBON	33	5%	1/4W
		< VARIABLE RESISTOR >			
RV41	1-238-601-11	RES, ADJ, CARBON 22K			
RV42	1-238-600-11	RES, ADJ, CARBON 10K			
		< TRANSFORMER >			
T1	1-409-505-11	COIL (ANT. SW3)			
T2	1-402-960-11	COIL (OSC SW3)			
		< TERMINAL >			
TM1	1-537-488-12	TERMINAL BOARD (ANTENNA)			
		< VIBRATOR >			
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)			
X41	1-760-220-11	FILTER, CERAMIC (10.7MHz)			
X42	1-527-981-00	FILTER, CERAMIC (450kHz)			
X43	1-577-075-11	OSCILLATOR, CERAMIC (19kHz)			

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Ref. No.	Part No.	Description			Remark
*	A-4303-514-A	TCB BOARD, COMPLETE (AEP,UK)			
		**********			
*	A-4303-515-A	TCB BOARD, COMPLETE (IT,G)			
		**********			
*	A-4303-516-A	TCB BOARD, COMPLETE (EE)			
		**********			
		< CAPACITOR >			
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C2	1-126-967-11	ELECT	47uF	20%	16V
C3	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C5	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C6	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C7	1-101-004-00	CERAMIC	0.01uF		50V (EE)
C8	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C9	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C10	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C11	1-216-295-91	METAL CHIP	0	5%	1/10W (IT,G)
C16	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C19	1-163-249-11	CERAMIC CHIP	82PF	5%	50V (AEP,UK,EE)
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C22	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C26	1-126-967-11	ELECT	47uF	20%	16V
C28	1-126-967-11	ELECT	47uF	20%	16V
C29	1-162-306-11	CERAMIC	0.01uF	30%	16V
C30	1-124-925-11	ELECT	2.2uF	20%	100V
C31	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C32	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C33	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C34	1-163-091-00	CERAMIC CHIP	8PF		50V (IT,G)
C34	1-163-229-11	CERAMIC CHIP	12PF	5%	50V (AEP,UK,EE)
C35	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C40	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C41	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C42	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C43	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C44	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C45	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C46	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C47	1-126-967-11	ELECT	47uF	20%	16V
C48	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C49	1-124-902-00	ELECT	0.47uF	20%	50V
C50	1-124-903-11	ELECT	1.0uF	20%	50V
C51	1-124-903-11	ELECT	1.0uF	20%	50V
C52	1-126-963-11	ELECT	4.7uF	20%	50V (AEP,UK,IT,G)
C52	1-126-964-11	ELECT	10uF	20%	50V (EE)
C53	1-126-964-11	ELECT	10uF	20%	50V
C54	1-104-396-11	ELECT	10uF	20%	16V
C55	1-104-396-11	ELECT	10uF	20%	16V
C56	1-104-396-11	ELECT	10uF	20%	16V
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C59	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V (AEP,UK,IT,G)
C59	1-163-989-11	CERAMIC CHIP	33000PF	10%	25V (EE)
C60	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V (AEP,UK,IT,G)
C60	1-163-989-11	CERAMIC CHIP	33000PF	10%	25V (EE)
C61	1-126-301-11	ELECT	1.0uF	20%	50V
C62	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C63	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C64	1-126-967-11	ELECT	47uF	20%	16V
C65	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C66	1-126-162-11	ELECT	3.3uF	20%	50V
C67	1-126-933-11	ELECT	100uF	20%	10V
C68	1-162-306-11	CERAMIC	0.01uF	30%	16V
C71	1-162-306-11	CERAMIC	0.01uF	30%	16V
C72	1-126-967-11	ELECT	47uF	20%	16V
C120	1-163-105-00	CERAMIC CHIP	33PF	5%	50V (AEP,UK,IT,G)
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC			
CF2	1-760-393-11	FILTER, CERAMIC (AEP,UK,IT,G)			
CF3	1-567-389-11	FILTER, CERAMIC (EE)			
CF3	1-760-393-11	FILTER, CERAMIC (AEP,UK,IT,G)			
		< CONNECTOR >			
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P			
		< DIODE >			
D21	8-719-976-99	DIODE DTZ5.1B			
D41	8-719-016-74	DIODE 1SS352			
		< FRONTEND >			
FE1	1-693-335-11	FRONT END (3 GANG)(EE)			
FE1	1-233-542-11	FRONT END (4 GANG)(AEP,UK,IT,G)			
FE2	1-233-514-11	ENCAPSULATED COMPONENT (AEP,UK,EE)			
FE2	1-239-260-11	ENCAPSULATED COMPONENT (IT,G)			
		< IC >			
IC21	8-759-288-54	IC LC72130			
IC41	8-759-176-03	IC LA1835			

TCB

Ref. No.	Part No.	Description			Remark
		< IFT >			
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)			
		< JUMPER RESISTOR >			
JR1	1-216-295-91	METAL CHIP	0	5%	1/10W (IT,G)
JR2	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP,UK,EE)
JR3	1-216-295-91	METAL CHIP	0	5%	1/10W (IT,G)
JR6	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP,UK,IT,G)
JR7	1-216-295-91	METAL CHIP	0	5%	1/10W (IT,G)
JR8	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP,UK,EE)
JR9	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP,UK,EE)
JR45	1-216-295-91	METAL CHIP	0	5%	1/10W
JR46	1-216-296-91	METAL CHIP	0	5%	1/8W
JR47	1-216-295-91	METAL CHIP	0	5%	1/10W
JR48	1-216-295-91	METAL CHIP	0	5%	1/10W
JR49	1-216-296-91	METAL CHIP	0	5%	1/8W
JR51	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP,UK,EE)
JR52	1-216-295-91	METAL CHIP	0	5%	1/10W
JR53	1-216-296-91	METAL CHIP	0	5%	1/8W (AEP,UK,EE)
JR54	1-216-295-91	METAL CHIP	0	5%	1/10W
		< JUMPER RESISTOR >			
JW4	1-249-413-11	CARBON	470	5%	1/4W (AEP,UK,IT,G)
JW5	1-249-413-11	CARBON	470	5%	1/4W (AEP,UK,IT,G)
		< COIL >			
L2	1-414-142-11	MICRO INDUCTOR 1uH (AEP,UK,IT,G)			
L3	1-410-521-11	MICRO INDUCTOR 100uH			
L4	1-410-515-11	INDUCTOR 33uH (AEP,UK,IT,G)			
L41	1-407-500-00	MICRO INDUCTOR 4.7mH (AEP,UK,EE)			
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE) 1mH (IT,G)			
		< FILTER >			
LPF41	1-239-845-11	FILTER, LOW PASS			
LPF42	1-239-845-11	FILTER, LOW PASS			
		< TRANSISTOR >			
Q1	8-729-201-27	TRANSISTOR 2SC2715Y			
Q2	8-729-201-27	TRANSISTOR 2SC2715Y			
Q3	8-729-201-27	TRANSISTOR 2SC2715Y			
Q4	8-729-201-27	TRANSISTOR 2SC2715Y			
Q5	8-729-424-08	TRANSISTOR UN2111			

Ref. No.	Part No.	Description			Remark
Q9	8-729-216-22	TRANSISTOR 2SA812-M5M6 (AEP,UK,EE)			
Q11	8-729-421-22	TRANSISTOR UN2211 (AEP,UK,EE)			
Q12	8-729-421-22	TRANSISTOR UN2211 (AEP,UK,EE)			
Q13	8-729-421-22	TRANSISTOR UN2211 (AEP,UK,EE)			
Q14	8-729-421-22	TRANSISTOR UN2211 (AEP,UK,EE)			
		< RESISTOR >			
R1	1-249-401-11	CARBON	47	5%	1/4W F
R2	1-216-037-00	METAL CHIP	330	5%	1/10W
R3	1-216-037-00	METAL CHIP	330	5%	1/10W
R5	1-216-037-00	METAL CHIP	330	5%	1/10W
R6	1-216-081-00	METAL CHIP	22K	5%	1/10W
R7	1-216-037-00	METAL CHIP	330	5%	1/10W
R8	1-216-037-00	METAL CHIP	330	5%	1/10W
R9	1-216-081-00	METAL CHIP	22K	5%	1/10W
R10	1-216-037-00	METAL CHIP	330	5%	1/10W
R11	1-216-081-00	METAL CHIP	22K	5%	1/10W
R12	1-216-037-00	METAL CHIP	330	5%	1/10W
R13	1-216-037-00	METAL CHIP	330	5%	1/10W
R14	1-216-081-00	METAL CHIP	22K	5%	1/10W
R18	1-216-073-00	METAL CHIP	10K	5%	1/10W (AEP,UK,EE)
R19	1-216-073-00	METAL CHIP	10K	5%	1/10W (AEP,UK,EE)
R21	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R22	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R23	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R24	1-216-025-91	METAL CHIP	100	5%	1/10W
R25	1-249-417-11	CARBON	1.0K	5%	1/4W F
R26	1-249-437-11	CARBON	47K	5%	1/4W
R27	1-249-429-11	CARBON	10K	5%	1/4W
R28	1-249-417-11	CARBON	1.0K	5%	1/4W F
R29	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R30	1-216-186-00	METAL CHIP	330	5%	1/8W
R31	1-216-025-91	METAL CHIP	100	5%	1/10W
R32	1-249-425-11	CARBON	4.7K	5%	1/4W F
R33	1-249-425-11	CARBON	4.7K	5%	1/4W F
R34	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R35	1-216-214-00	METAL CHIP	4.7K	5%	1/8W
R36	1-216-025-91	METAL CHIP	100	5%	1/10W
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W
R38	1-216-089-91	METAL CHIP	47K	5%	1/10W
R39	1-249-429-11	CARBON	10K	5%	1/4W
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W
R43	1-216-042-00	METAL CHIP	510	5%	1/10W
R44	1-216-013-00	METAL CHIP	33	5%	1/10W
R45	1-247-843-11	CARBON	3.3K	5%	1/4W F
R46	1-216-073-00	METAL CHIP	10K	5%	1/10W
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W
R48	1-249-417-11	CARBON	1.0K	5%	1/4W F
R49	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R53	1-249-429-11	CARBON	10K	5%	1/4W
R55	1-216-162-00	METAL CHIP	33	5%	1/8W
R56	1-249-393-11	CARBON	10	5%	1/4W F
R91	1-216-295-91	METAL CHIP	0	5%	1/10W (AEP,UK,EE)
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W (AEP,UK,EE)
R99	1-249-399-11	CARBON	33	5%	1/4W F
		< VARIABLE RESISTOR >			
RV41	1-238-601-11	RES, ADJ, CARBON 22K			
RV42	1-238-600-11	RES, ADJ, CARBON 10K			
		< TERMINAL >			
TM1	1-537-488-11	TERMINAL BOARD (ANT)(ANTENNA)			
		< VIBRATOR >			
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)			
X41	1-760-220-11	FILTER, CERAMIC (10.7MHz)			
X42	1-527-981-00	FILTER, CERAMIC (450kHz)			
X43	1-577-075-11	OSCILLATOR, CERAMIC (456kHz)			

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*	A-4303-537-A	TCB BOARD, COMPLETE (TH) **********			
		< CAPACITOR >			
C1	1-162-294-31	CERAMIC	0.001uF	10%	50V
C2	1-104-664-11	ELECT	47uF	20%	16V
C3	1-164-159-21	CERAMIC	0.1uF		50V
C5	1-162-306-11	CERAMIC	10000PF	30%	16V
C6	1-162-306-11	CERAMIC	10000PF	30%	16V
C7	1-101-004-00	CERAMIC	0.01uF		50V
C8	1-162-306-11	CERAMIC	10000PF	30%	16V
C9	1-162-306-11	CERAMIC	10000PF	30%	16V
C11	1-164-159-21	CERAMIC	0.1uF		50V
C12	1-162-198-31	CERAMIC	8.2PF	10%	50V
C14	1-162-306-11	CERAMIC	10000PF	30%	16V
C21	1-102-960-00	CERAMIC	24PF	5%	50V
C22	1-164-159-21	CERAMIC	0.1uF		50V
C23	1-162-306-11	CERAMIC	10000PF	30%	16V
C24	1-104-664-11	ELECT	47uF	20%	16V
C25	1-162-306-11	CERAMIC	10000PF	30%	16V
C26	1-126-964-11	ELECT	10uF	20%	50V
C27	1-164-159-21	CERAMIC	0.1uF		50V
C28	1-124-925-11	ELECT	2.2uF	20%	100V
C29	1-102-960-00	CERAMIC	24PF	5%	50V
C30	1-162-294-31	CERAMIC	0.001uF	10%	50V
C31	1-162-306-11	CERAMIC	10000PF	30%	16V
C41	1-126-933-11	ELECT	100uF	20%	10V
C42	1-162-306-11	CERAMIC	10000PF	30%	16V
C43	1-126-962-11	ELECT	3.3uF	20%	50V
C44	1-162-306-11	CERAMIC	10000PF	30%	16V
C45	1-124-589-11	ELECT	47uF	20%	16V
C46	1-162-600-11	CERAMIC	4700PF	30%	16V
C47	1-162-294-31	CERAMIC	0.001uF	10%	50V
C48	1-126-160-11	ELECT	1.0uF	20%	50V
C49	1-136-159-00	METALIZED FILM	0.033uF	5%	50V
C50	1-136-159-00	METALIZED FILM	0.033uF	5%	50V
C51	1-162-600-11	CERAMIC	4700PF	30%	16V
C52	1-162-600-11	CERAMIC	4700PF	30%	16V
C53	1-126-964-11	ELECT	10uF	20%	50V
C54	1-126-157-11	ELECT	10uF	20%	16V
C55	1-126-964-11	ELECT	10uF	20%	50V
C56	1-126-964-11	ELECT	10uF	20%	50V
C57	1-164-159-21	CERAMIC	0.1uF		50V F
C58	1-162-306-11	CERAMIC	10000PF	30%	16V
C59	1-164-159-21	CERAMIC	0.1uF		50V F
C61	1-164-159-21	CERAMIC	0.1uF		50V F
C62	1-104-664-11	ELECT	47uF	20%	16V
C63	1-164-159-21	CERAMIC	0.1uF		50V F
C64	1-124-902-00	ELECT	0.47uF	20%	50V
C65	1-124-903-11	ELECT	1.0uF	20%	50V
C66	1-124-903-11	ELECT	1.0uF	20%	50V
C67	1-126-964-11	ELECT	10uF	20%	50V
C68	1-162-306-11	CERAMIC	10000PF	30%	16V
C69	1-162-306-11	CERAMIC	10000PF	30%	16V
C70	1-162-306-11	CERAMIC	10000PF	30%	16V
C71	1-162-306-11	CERAMIC	10000PF	30%	16V
C73	1-162-306-11	CERAMIC	10000PF	30%	16V
C74	1-126-964-11	ELECT	10uF	20%	50V
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC			
CF2	1-567-389-11	FILTER, CERAMIC			
		< CONNECTOR >			
* CN1	1-568-832-11	SOCKET, CONNECTOR 13P			
		< DIODE >			
D1	8-719-933-33	DIODE HZS6A1L			
D2	8-719-987-63	DIODE 1N4148M			
		< FRONTEND >			
FE1	1-233-533-11	ENCAPSULATED COMPONENT			
FE2	1-239-260-11	ENCAPSULATED COMPONENT			
		< IC >			
IC1	8-759-288-54	IC LC72130			
IC2	8-759-176-03	IC LA1835			
		< IFT >			
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)			

TCB

Ref. No.	Part No.	Description			Remark
		< COIL >			
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE)	1mH		
		< FILTER >			
LPF41	1-239-845-11	FILTER, LOW PASS			
LPF42	1-239-845-11	FILTER, LOW PASS			
		< TRANSISTOR >			
Q1	8-729-230-99	TRANSISTOR 2SC2669O-Y			
Q2	8-729-230-99	TRANSISTOR 2SC2669O-Y			
Q3	8-729-230-99	TRANSISTOR 2SC2669O-Y			
Q4	8-729-230-99	TRANSISTOR 2SC2669O-Y			
Q5	8-729-422-57	TRANSISTOR UN4111			
		< RESISTOR >			
R1	1-249-401-11	CARBON	47	5%	1/4W F
R2	1-249-411-11	CARBON	330	5%	1/4W
R3	1-249-411-11	CARBON	330	5%	1/4W
R5	1-249-411-11	CARBON	330	5%	1/4W
R6	1-247-863-91	CARBON	22K	5%	1/4W
R7	1-249-411-11	CARBON	330	5%	1/4W
R8	1-249-411-11	CARBON	330	5%	1/4W
R9	1-247-863-91	CARBON	22K	5%	1/4W
R10	1-249-411-11	CARBON	330	5%	1/4W
R11	1-247-863-91	CARBON	22K	5%	1/4W
R12	1-249-411-11	CARBON	330	5%	1/4W
R13	1-249-411-11	CARBON	330	5%	1/4W
R14	1-247-863-91	CARBON	22K	5%	1/4W
R15	1-249-429-11	CARBON	10K	5%	1/4W
R16	1-249-437-11	CARBON	47K	5%	1/4W
R19	1-249-399-11	CARBON	33	5%	1/4W F
R21	1-247-807-31	CARBON	100	5%	1/4W
R22	1-249-425-11	CARBON	4.7K	5%	1/4W F
R23	1-249-425-11	CARBON	4.7K	5%	1/4W F
R24	1-249-425-11	CARBON	4.7K	5%	1/4W F
R25	1-247-807-31	CARBON	100	5%	1/4W
R26	1-249-411-11	CARBON	330	5%	1/4W
R27	1-249-425-11	CARBON	4.7K	5%	1/4W F
R28	1-247-843-11	CARBON	3.3K	5%	1/4W F
R29	1-249-417-11	CARBON	1.0K	5%	1/4W F
R30	1-249-417-11	CARBON	1.0K	5%	1/4W F
R31	1-249-417-11	CARBON	1.0K	5%	1/4W F
R32	1-249-417-11	CARBON	1.0K	5%	1/4W F
R33	1-247-807-31	CARBON	100	5%	1/4W
R34	1-249-429-11	CARBON	10K	5%	1/4W
R35	1-249-429-11	CARBON	10K	5%	1/4W
R36	1-249-437-11	CARBON	47K	5%	1/4W
R37	1-249-417-11	CARBON	1.0K	5%	1/4W F
R41	1-249-429-11	CARBON	10K	5%	1/4W
R43	1-247-843-11	CARBON	3.3K	5%	1/4W
R44	1-247-843-11	CARBON	3.3K	5%	1/4W
R46	1-249-442-11	CARBON	510	5%	1/4W
R47	1-249-399-11	CARBON	33	5%	1/4W F
R48	1-247-843-11	CARBON	3.3K	5%	1/4W F
R49	1-249-393-11	CARBON	10	5%	1/4W F
R50	1-249-429-11	CARBON	10K	5%	1/4W
R51	1-249-441-11	CARBON	100K	5%	1/4W
R52	1-249-429-11	CARBON	10K	5%	1/4W
R53	1-249-425-11	CARBON	4.7K	5%	1/4W F
R54	1-249-425-11	CARBON	4.7K	5%	1/4W F
R99	1-249-399-11	CARBON	33	5%	1/4W F
		< VARIABLE RESISTOR >			
RV41	1-238-600-11	RES, ADJ, CARBON 10K			
RV42	1-238-601-11	RES, ADJ, CARBON 22K			
		< TERMINAL >			
TM1	1-537-238-21	TERMINAL BOARD (ANTENNA)			
		< VIBRATOR >			
X21	1-567-713-11	VIBRATOR, CRYSTAL (4.5MHz)			
X41	1-577-075-11	OSCILLATOR, CERAMIC (456kHz)			
X42	1-760-220-11	FILTER, CERAMIC (10.7MHz)			
X43	1-527-981-00	FILTER, CERAMIC (450kHz)			

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6. MODEL ADDITION (H771 : Taiwan, Indonesian model)

- For detailed TW, IA model, refer to E3 model.
- Regarding the not mentioned contents in this section, refer to "5. CIRCUIT AND BOARD CHANGED" in this Suppliment-1 and the previous issued service manual.

Difference table

Page	HCD-H771 : E3 model				HCD-H771 : TW, IA model			
82	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
			*** EXPLODED VIEWS ***				*** EXPLODED VIEWS ***	
	* 1	4-978-714-51	PANEL, LOADING		* 1	4-980-115-61	PANEL, LOADING (IA)	
	* 2	4-978-748-41	CASE		* 2	4-983-000-21	CASE (IA)	
	4	1-773-012-11	WIRE (FLAT TYPE)(15 CORE)		4	1-773-011-11	WIRE (FLAT TYPE)(15 CORE)(IA)	
	* 5	1-233-546-11	ENCAPSLATED COMPONENT FM/AM TUNER		* 5	A-4303-506-A	TCB BOARD, COMPLETE (IA) *NOTE	
						1-223-546-11	ENCAPSLATED COMPONENT, FM/AM TUNER	*NOTE
83	* 54	A-4389-180-A	MAIN BOARD, COMPLETE		* 54	A-4390-499-A	MAIN BOARD, COMPLETE (IA)	
	* 55	A-4389-179-A	POWER AMPLIFIER BOARD, COMPLETE		* 55	A-4390-498-A	POWER AMPLIFIER BOARD, COMPLETE (IA)	
	56	3-703-571-11	BUSHING (S)(4516), CORD		* 56	3-703-244-00	BUSHING (2104), CORD (TW)	
					* 56	4-966-266-01	BUSHING (S)(FBS002), CORD (IA)	
	⚠57	1-575-653-11	CORD, POWER		⚠57	1-575-651-11	CORD, POWER (TW)	
	⚠58	1-569-007-11	ADAPTER, CONVERSISON 2P		⚠58	1-569-008-11	ADAPTER, CONVERSISON 2P (TW)	
	* 60	4-979-275-01	PANEL, BACK		* 60	4-979-275-11	PANEL, BACK (TW)	
					* 60	4-979-275-91	PANEL, BACK (IA)	
84	106	4-978-733-01	KNOB, VOL		106	4-978-733-11	KNOB (VOL)(IA)	
	107	4-978-732-01	KNOB, JOG		107	4-978-732-11	KNOB, JOG (IA)	
	* 112	A-4389-419-A	JOG BOARD, COMPLETE		* 112	A-4390-497-A	JOG BOARD, COMPLETE (IA)	
	* 114	A-4389-417-A	HP BOARD, COMPLETE		* 114	A-4390-495-A	HP BOARD, COMPLETE (IA)	
	* 116	A-4389-154-A	PANEL BOARD, COMPLETE		* 116	A-4390-493-A	PANEL BOARD, COMPLETE (IA)	
	* 117	A-4389-418-A	CD SW BOARD, COMPLETE		* 117	A-4390-496-A	CD SW BOARD, COMPLETE (IA)	
85	151	X-4946-705-1	PANEL ASSY, FRONT		151	X-4947-188-1	PANEL ASSY, FRONT (IA)	
113			*** MISCELLANEOUS ***				*** MISCELLANEOUS ***	
	4	1-773-012-11	WIRE (FLAT TYPE)(15 CORE)		4	1-773-011-11	WIRE (FLAT TYPE)(15 CORE)(IA)	
	⚠57	1-575-653-11	CORD, POWER		⚠57	1-575-651-11	CORD, POWER (TW)	
	⚠58	1-569-007-11	ADAPTER, CONVERSION 2P		⚠58	1-569-008-11	ADAPTER, CONVERSION 2P (TW)	
			*** ACCESSORIES & PACKING MATERIALS ***				*** ACCESSORIES & PACKING MATERIALS ***	
	*	4-981-035-01	CUSHION (FRONT)		*	4-984-428-01	CUSHION (FRONT)(IA)	
	*	4-981-036-01	CUSHION (REAR)		*	4-984-429-01	CUSHION (REAR)(IA)	
			*** HARDWARE LIST ***				*** HARDWARE LIST ***	
	#2	7-685-871-01	SCREW +BVTP 3x6 (S)		#2	7-682-548-04	SCREW +BVTT 3x8 (s)	

NOTE
- Abbreviation
  TW : Taiwan model
  IA : Indonesian model
  E3 : With SW tuner model

* NOTE
The TCB BOARD, COMPLETE was changed to FM/AM TUNER PACK in the middle of producing.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

ELECTRICAL ADJUSTMENT

TUNER SECTION — Page 14 —

- TW model
  No adjustment is meeded due to a tuner pack.
- IA model
  USE TCB BOARD MODEL:
  For detailed AM, FM section, refer to AEP model.
  For detailed SW section, refer to CIS model.
  USE TUNER PACK MODEL:
  No adjustment is needed due to tuner pack.

ELECTRICAL PARTS LIST

- TW model
  For detailed TW model, refer to E3 model.
- IA model
  For detailed IA model, refer to E3 model.

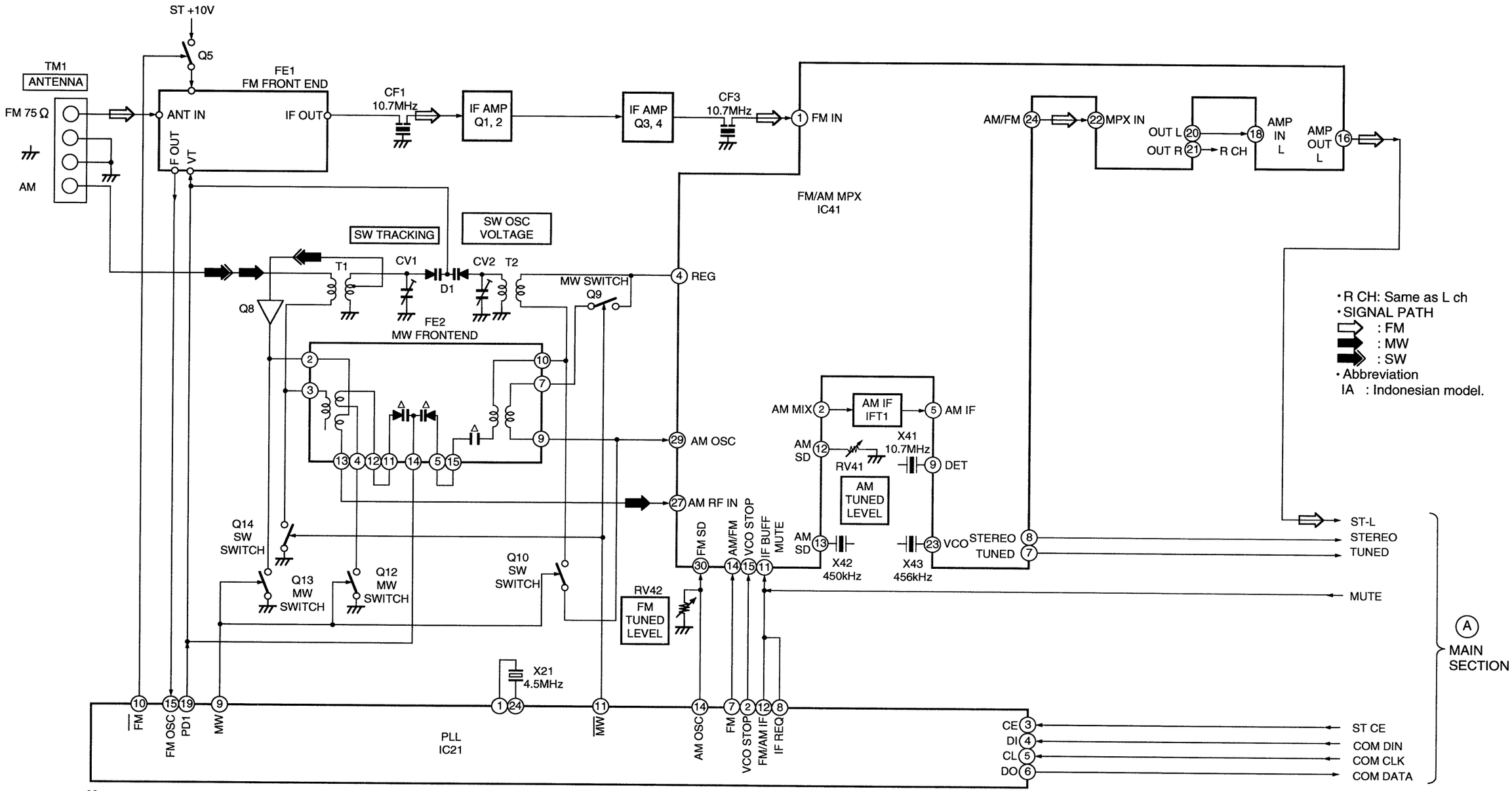
Difference table

Page	E3 model				Indonesian model			
	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
92	*	A-4389-418-A	CD SW BOARD,COMPLETE		*	A-4390-496-A	CD SW BOARD,COMPLETE	
93	*	A-4389-417-A	HP BOARD,COMPLETE		*	A-4390-495-A	HP BOARD,COMPLETE	
	*	1-233-546-11	ENCAPSLED COMPONENT,FM/AM TUNER		*	1-233-546-11	ENCAPSLED COMPONENT,FM/AM TUNER	*NOTE
					*	A-4303-506-A	TCB BOARD,COMPONENT *NOTE	
94	*	A-4389-419-A	JOG BOARD,COMPLETE		*	A-4390-497-A	JOG BOARD,COMPLETE	
102	*	A-4389-154-A	PANEL BOARD,COMPLETE		*	A-4390-493-A	PANEL BOARD,COMPLETE	
106	*	A-4389-179-A	POWER AMPLIFIER BOARD,COMPLETE		*	A-4390-498-A	POWER AMPLIFIER BOARD, COMPLETE	
	R1228	1-247-883-00	CARBON 150K 5% 1/4W		R1228	1-247-881-00	CARBON 120K 5% 1/4W	

NOTE
- Abbreviation
  TW : Taiwan model
  IA : Indonesian model
  E3 : With SW tuner model

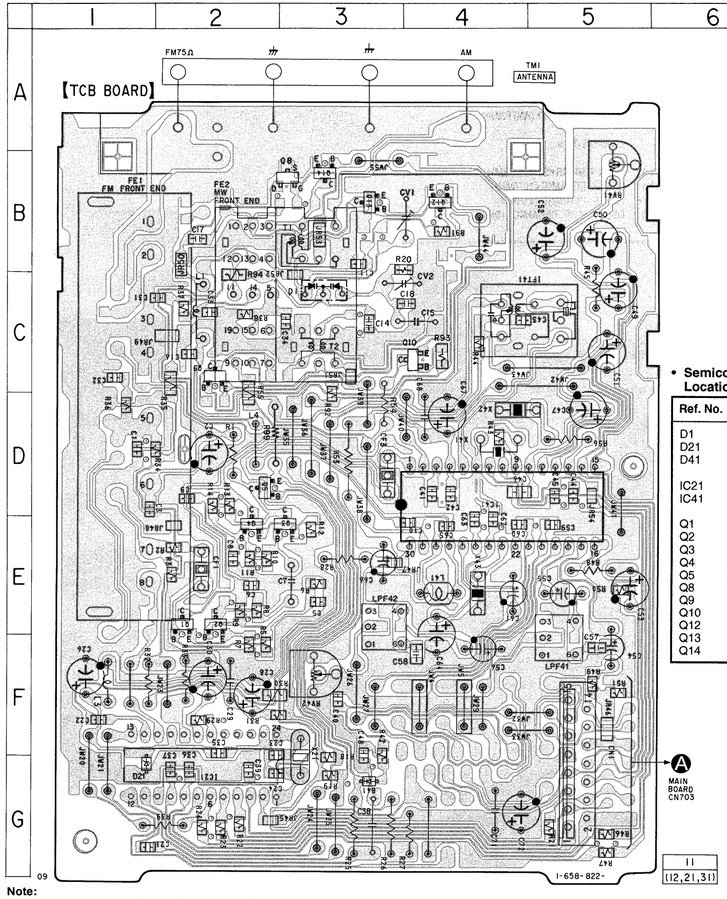
* NOTE
The TCB BOARD, COMPLETE was changed to FM/AM TUNER PACK in the middle of producing.

BLOCK DIAGRAM (IA MODEL)



09

TCB BOARD
PRINTED WIRING BOARD (IA MODEL)



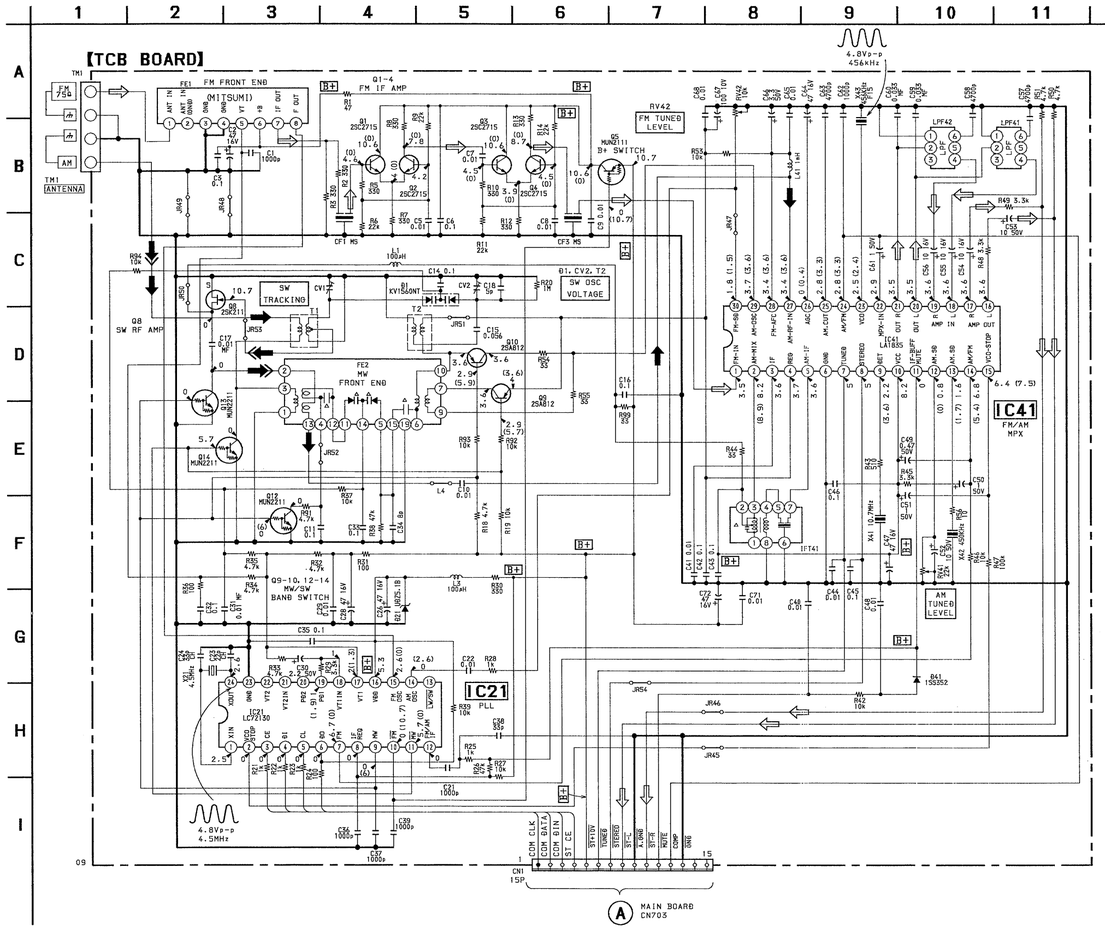
- **Semiconductor Location**

Ref. No.	Location
D1	C-3
D21	G-1
D41	G-3
IC21	G-2
IC41	E-5
Q1	E-2
Q2	E-2
Q3	E-3
Q4	E-2
Q5	E-2
Q8	B-3
Q9	C-2
Q10	C-4
Q12	B-4
Q13	B-3
Q14	B-3

Note:
- ⟷ : parts extracted from the component side.
- △ : Internal component.
- ▭ : Pattern from the side which enable seeing.
- Abbreviation
  IA : Indonesian model.

SCHEMATIC DIAGRAM (IA MODEL)

*** NOTE**
The TCB BOARD, COMPLETE was changed tp FM/AM TUNER PACK in the middle of producing.



NOTE
- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
  ( ) : AM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Abbreviation
- IA : Indonesian model.
- Signal path.
  ⇨ : FM
  ➡ : MW
  ➡ : SW

FM/AM TUNER | TCB

Note:

When indicating parts by reference number, please include the board name.

* NOTE
The TCB BOARD, COMPLETE was changed to FM/AM TUNER PACK in the middle of producing.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation
  IA : Indonesia model

R

Ref. No.	Part No.	Description			Remark
*	1-233-546-11	ENCAPSLATEDCOMPONENT, FM/AM TUNER (IA) *NOTE			
		**********			
*	A-4303-506-A	TCB BOARD, COMPLETE (IA) *NOTE			
		**********			
		< CAPACITOR >			
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C2	1-126-967-11	ELECT	47uF	20%	16V
C3	1-163-038-91	CERAMIC CHIP	100000PF		25V
C5	1-163-031-11	CERAMIC CHIP	10000PF		50V
C6	1-163-038-91	CERAMIC CHIP	100000PF		25V
C7	1-101-004-00	CERAMIC	0.01uF		50V
C8	1-163-031-11	CERAMIC CHIP	10000PF		50V
C9	1-163-031-11	CERAMIC CHIP	10000PF		50V
C10	1-163-031-11	CERAMIC CHIP	10000PF		50V
C11	1-163-038-91	CERAMIC CHIP	100000PF		25V
C14	1-163-038-91	CERAMIC CHIP	100000PF		25V
C15	1-136-162-00	METALIZED FILM	0.056uF	5%	50V
C16	1-163-038-91	CERAMIC CHIP	100000PF		25V
C17	1-163-031-11	CERAMIC CHIP	10000PF		50V
C18	1-163-088-00	CERAMIC CHIP	5PF		50V
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C22	1-163-031-11	CERAMIC CHIP	10000PF		50V
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C26	1-126-967-11	ELECT	47uF	20%	50V
C28	1-126-967-11	ELECT	47uF	20%	50V
C29	1-162-306-11	CERAMIC	10000PF	20%	16V
C30	1-124-925-11	ELECT	2.2uF	20%	100V
C31	1-163-031-11	CERAMIC CHIP	10000PF		50V
C32	1-163-038-91	CERAMIC CHIP	100000PF		25V
C33	1-163-038-91	CERAMIC CHIP	100000PF		25V
C34	1-163-091-00	CERAMIC CHIP	8PF		50V
C35	1-163-038-91	CERAMIC CHIP	100000PF		25V
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C38	1-162-211-31	CERAMIC	33PF	5%	50V
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C40	1-163-031-11	CERAMIC CHIP	10000PF		50V
C41	1-163-031-11	CERAMIC CHIP	10000PF		50V
C42	1-163-038-91	CERAMIC CHIP	100000PF		25V
C43	1-163-038-91	CERAMIC CHIP	100000PF		25V
C44	1-163-031-11	CERAMIC CHIP	10000PF		50V
C45	1-163-038-91	CERAMIC CHIP	100000PF		25V
C46	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C47	1-126-967-11	ELECT	47uF	20%	50V
C48	1-163-031-11	CERAMIC CHIP	10000PF		50V
C49	1-124-902-00	ELECT	0.47uF	20%	50V
C50	1-124-903-11	ELECT	1.0uF	20%	50V
C51	1-124-903-11	ELECT	1.0uF	20%	50V
C52	1-126-964-11	ELECT	10uF	20%	50V
C53	1-126-964-11	ELECT	10uF	20%	50V
C54	1-126-157-11	ELECT	10uF	20%	16V
C55	1-126-157-11	ELECT	10uF	20%	16V
C56	1-126-157-11	ELECT	10uF	20%	16V
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C59	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C60	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C61	1-126-301-11	ELECT	1uF	20%	50V
C62	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C63	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C64	1-126-967-11	CAP, ELECT	47uF	20%	50V
C65	1-163-031-11	CERAMIC CHIP	10000PF		50V
C66	1-126-162-11	ELECT	3.3uF	20%	50V
C67	1-126-933-11	ELECT	100uF	20%	16V
C68	1-162-306-11	CERAMIC	10000PF	20%	16V
C71	1-162-306-11	CERAMIC	10000PF	20%	16V
C72	1-126-967-11	ELECT	47uF	20%	50V
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC			
CF3	1-567-389-11	FILTER, CERAMIC			
		< CONNECTOR >			
* CN1	1-568-834-11	SOCKET, CONNECTOR 15P			
		< VARIABLE CAPACITOR >			
CV1	1-141-227-00	CAP, TRIMMER 20PF			
CV2	1-141-227-00	CAP, TRIMMER 20PF			
		< DIODE >			
D1	8-719-976-30	DIODE KV1560NT			
D21	8-719-976-99	DIODE DTZ5.1B			
D41	8-719-016-74	DIODE 1SS352			
		< FRONT END >			
FE1	1-233-532-11	ENCAPSULATED COMPONENT			
FE2	1-239-262-11	ENCAPSULATED COMPONENT			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC21	8-759-288-54	IC LC72130			
IC41	8-759-176-03	IC LA1835			
		< IFT >			
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)			
		< JUMPER RESISTOR >			
JR45	1-216-295-91	METAL CHIP	0	5%	1/10W
JR46	1-216-296-91	METAL CHIP	0	5%	1/8W
JR47	1-216-295-91	METAL CHIP	0	5%	1/10W
JR48	1-216-295-91	METAL CHIP	0	5%	1/10W
JR49	1-216-296-91	METAL CHIP	0	5%	1/8W
JR50	1-216-295-91	METAL CHIP	0	5%	1/10W
JR51	1-216-295-91	METAL CHIP	0	5%	1/10W
JR52	1-216-295-91	METAL CHIP	0	5%	1/10W
JR53	1-216-296-91	METAL CHIP	0	5%	1/8W
JR54	1-216-295-91	METAL CHIP	0	5%	1/10W
		< COIL >			
L1	1-410-521-11	MICRO INDUCTOR 100uH			
L3	1-410-521-11	MICRO INDUCTOR 100uH			
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE) 1mH			
		< FILTER >			
LPF41	1-239-845-11	FILTER, LOW PASS			
LPF42	1-239-845-11	FILTER, LOW PASS			
		< TRANSISTOR >			
Q1	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L			
Q2	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L			
Q3	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L			
Q4	8-729-201-27	TRANSISTOR 2SC2715Y-TE85L			
Q5	8-729-424-08	TRANSISTOR UN2111			
Q8	8-729-033-67	TRANSISTOR 2SK211-Y-TE85L			
Q9	8-729-216-22	TRANSISTOR 2SA812-T1-M5M6			
Q10	8-729-216-22	TRANSISTOR 2SA812-T1-M5M6			
Q12	8-729-421-22	TRANSISTOR UN2211			
Q13	8-729-421-22	TRANSISTOR UN2211			
Q14	8-729-421-22	TRANSISTOR UN2211			
		< RESISTOR >			
R1	1-249-401-11	CARBON	47	5%	1/4W
R2	1-216-037-00	METAL CHIP	330	5%	1/10W
R3	1-216-037-00	METAL CHIP	330	5%	1/10W
R5	1-216-037-00	METAL CHIP	330	5%	1/10W
R6	1-216-081-00	METAL CHIP	22K	5%	1/10W
R7	1-216-037-00	METAL CHIP	330	5%	1/10W
R8	1-216-037-00	METAL CHIP	330	5%	1/10W
R9	1-216-081-00	METAL CHIP	22K	5%	1/10W
R10	1-216-037-00	METAL CHIP	330	5%	1/10W

Ref. No.	Part No.	Description			Remark
R11	1-216-081-00	METAL CHIP	22K	5%	1/10W
R12	1-216-037-00	METAL CHIP	330	5%	1/10W
R13	1-216-037-00	METAL CHIP	330	5%	1/10W
R14	1-216-081-00	METAL CHIP	22K	5%	1/10W
R18	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R19	1-216-073-00	METAL CHIP	10K	5%	1/10W
R20	1-216-121-91	METAL CHIP	1.0M	5%	1/10W
R21	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R22	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R23	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R24	1-216-025-91	METAL CHIP	100	5%	1/10W
R25	1-249-417-11	CARBON	1K	5%	1/4W
R26	1-249-437-11	CARBON	47K	5%	1/4W
R27	1-249-429-11	CARBON	10K	5%	1/4W
R28	1-249-417-11	CARBON	1K	5%	1/4W
R29	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R30	1-216-186-00	METAL CHIP	330	5%	1/8W
R31	1-216-025-91	METAL CHIP	100	5%	1/10W
R32	1-249-425-11	CARBON	4.7K	5%	1/4W
R33	1-249-425-11	CARBON	4.7K	5%	1/4W
R34	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R35	1-216-214-00	METAL CHIP	4.7K	5%	1/8W
R36	1-216-025-91	METAL CHIP	100	5%	1/10W
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W
R38	1-216-089-91	METAL CHIP	47K	5%	1/10W
R39	1-249-429-11	CARBON	10K	5%	1/4W
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W
R43	1-216-042-00	METAL CHIP	510	5%	1/10W
R44	1-216-013-00	METAL CHIP	33	5%	1/10W
R45	1-247-843-11	CARBON	3.3K	5%	1/4W
R46	1-216-073-00	METAL CHIP	10K	5%	1/10W
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W
R48	1-247-843-11	CARBON	3.3K	5%	1/4W
R49	1-216-061-00	METAL CHIP	3.3K	5%	1/4W
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R53	1-249-429-11	CARBON	10K	5%	1/4W
R54	1-249-399-11	CARBON	33	5%	1/4W
R55	1-216-162-00	METAL CHIP	33	5%	1/10W
R56	1-249-393-11	CARBON	10	5%	1/4W
R91	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W
R93	1-216-073-00	METAL CHIP	10K	5%	1/10W
R94	1-216-073-00	METAL CHIP	10K	5%	1/10W
R99	1-249-399-11	CARBON	33	5%	1/4W F
		< VARIABLE RESISTOR >			
RV41	1-238-601-11	RES, ADJ, CARBON 22K			
RV42	1-238-600-11	RES, ADJ, CARBON 10K			

TCB

Ref. No.	Part No.	Description	Remark
		< TRANSFORMER >	
T1	1-409-505-11	COIL (ANT. SW3)	
T2	1-402-960-11	COIL (OSC SW3)	
		< TERMINAL >	
TM1	1-537-238-21	TERMINAL BOARD (ANTENNA)	
		< VIBRATOR >	
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)	
X41	1-760-220-11	FILTER, CERAMIC (10.7MHz)	
X42	1-527-981-00	FILTER, CERAMIC (450kHz)	
X43	1-577-075-11	OSCILLATOR, CERAMIC (19kHz)	

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7. DIFFERENCE DEPENDING ON PRODUCT COUNTRY OF MECHANISM DECK (CDM38-5BD19, TCM-220WR2E)

• "INDONESIA PRODUCT" in HCD-H771/H771D means HCD-H771: Indonesian model.

Difference table

Page	EXCEPT INDONESIA PRODUCT				INDONESIA PRODUCT			
	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
84	101	X-4946-727-1	HOLDER (A) ASSY, CASSETTE		101	X-4947-193-1	HOLDER (A) ASSY, CASSETTE	
	104	X-4946-728-1	HOLDER (B) ASSY, CASSETTE		104	X-4947-194-1	HOLDER (B) ASSY, CASSETTE	
86	201	4-917-583-21	BRACKET, YOKE		201	4-917-583-71	BRACKET, YOKE	

9-960-535-81

Sony Corporation
Home A&V Products Company

English
9610991-1
Printed in Japan
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Published by Service and Safety
Engineering Dept. (Shibaura)